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1968

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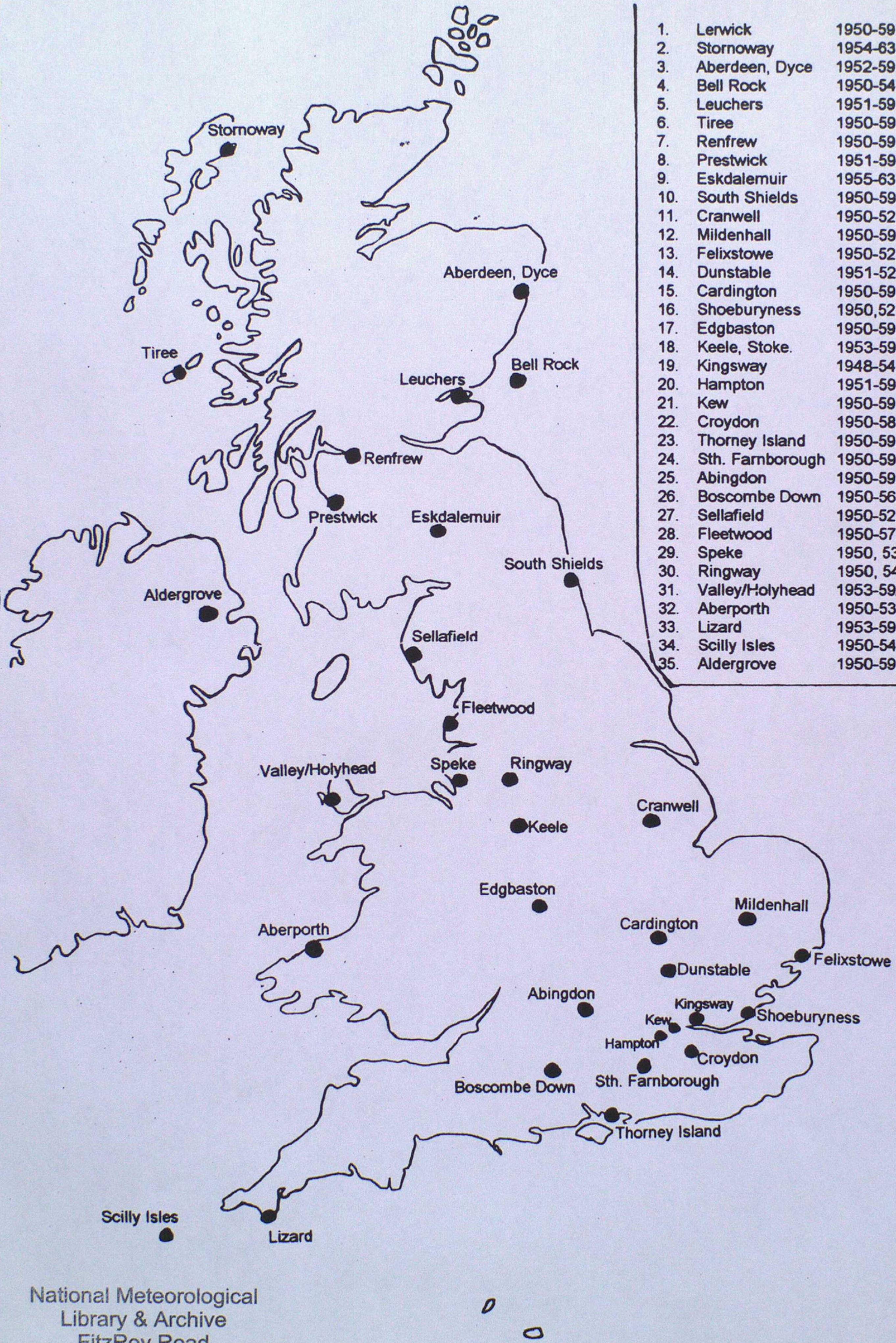
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Eskdalemuir
South Shields
Aldergrove
Sellafield
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Valley/Holyhead
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Cardington
Aberporth
Felixstowe
Dunstable
Abingdon
Kingsway
Kew
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Sth. Farnborough
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Scilly Isles
Lizard

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TABLES OF SURFACE WIND SPEED AND DIRECTION OVER THE UNITED KINGDOM

by H.C. Shellard, B.Sc.

INTRODUCTION

These tables replace 'Tables of Wind Direction and Force over the British Isles', (second edition with supplements; issued in 1943 by the Meteorological Office in typescript form).

Table I gives the average frequencies (occasions per month) of wind speeds within stated ranges, corresponding to Beaufort forces 0, 1 to 3, 4 and 5, 6 and 7, and 8 and above, and of wind directions from eight points at 21 stations based on observations made at 0300, 0900, 1500 and 2100 GMT. The averages refer to the 10-year period, 1950-59. In the case of two stations, Dishforth and Waddington, the data were incomplete but the breaks were filled by data from nearby stations, namely Leeming (January 1950 to August 1951) and Scampton (August 1953 to May 1955) respectively. The frequencies for Aberporth at 0300 GMT are based on data for 1953-59 only. Station particulars are as follows:

Station	Lat.	Long.	Height above MSL	Station	Lat.	Long.	Height above MSL
			feet				*feet*
Lerwick	60° 08′N	01° 11′W	269	**Mildenhall**	52° 22′N	00° 28′E	15
Wick	58° 27′N	03° 05′W	119	Heathrow (London Airport)	51° 29′N	00° 27′W	82
Stornoway	58° 13′N	06° 20′W	11				
Dyce	57° 12′N	02° 12′W	190	**Boscombe Down**	51° 10′N	01° 45′W	414
Leuchars	56° 23′N	02° 52′W	35	Silloth	54° 42′N	03° 23′W	25
Tiree	56° 30′N	06° 53′W	29	**Ringway** (Manchester Airport)	53° 21′N	02° 16′W	248
Renfrew	55° 52′N	04° 24′W	26				
Acklington	55° 18′N	01° 38′W	138				
Leeming	54° 18′N	01° 32′W	105	**Valley**	53° 15′N	04° 32′W	26
Dishforth	54° 08′N	01° 25′W	105	**Aberporth**	52° 08′N	04° 34′W	378
Scampton	53° 18′N	00° 32′W	186	Mount Batten	50° 21′N	04° 07′W	87
Waddington	53° 10′N	00° 31′W	224	**Scilly**	49° 56′N	06° 18′W	158
Elmdon (Birmingham Airport)	52° 27′N	01° 45′W	319	**Aldergrove** (Belfast Airport)	54° 39′N	06° 13′W	217

Stations printed in bold type were equipped with anemographs

The speeds and directions used in Table I are those observed at synoptic hours and summarized in Table IV of the *Monthly Weather Report.* At stations equipped with anemographs they were means over a period of ten minutes ending at the time of observation. At the remaining stations they were means over a period of at least 15 seconds read from indicating dials. In either case the speeds were corrected, where necessary, to a standard height of 33 feet above the ground. In the direction summaries of Table I the cardinal points cover a range of 50 degrees and the intermediate points a range of only 40 degrees, the original observations being to the nearest 10 degrees. This bias in favour of the cardinal points may be corrected by reducing their frequencies by one tenth and distributing this tenth proportionately between the ranges on either side. For example, the 0300 GMT January frequency of southerly winds at Scilly of 5.3 would be reducted to 4.8, 0.2 $\left(\frac{2.0}{5.7} \times 0.53\right)$ being added to south-east to give a corrected frequency of 2.2, and 0.3 $\left(\frac{3.7}{5.7} \times 0.53\right)$ being added to south-west to give a corrected frequency of 4.0

Table II presents for 73 anemograph stations the means of the highest hourly wind speeds and the maximum hourly wind speeds for each month. The speeds are in knots, as recorded, over complete hours, i.e. as measured from the charts over periods of 60 minutes ending at each tabular hour. The mean highest hourly speed represents the mean wind speed over a complete hour which will probably be reached or exceeded in the month in question in one year in two. The highest recorded hourly speed represents the mean speed over a complete hour which will rarely be exceeded in that month (but see notes on Table XI). Particulars of the stations and anemographs concerned are as follows:

Station	Lat.	Long.	Years used	Effective height of anemograph
				feet
Lerwick*	60° 08′N	01° 11′W	1923-59 (26-37)	37
Kirkwall	58° 59′N	02° 57′W	1929-44 (13-15)	35
Butt of Lewis	58° 31′N	06° 16′W	1929-35 (6-7)	35
Stornoway*	58° 12′N	06° 22′W	1936-59 (21-24)	36
Dyce*	57° 12′N	02° 12′W	1952-59 (8)	40
Aberdeen	57° 10′N	02° 06′W	1913-47 (31-35)	32
Balmakewan	56° 48′N	02° 33′W	1915-36 (21-22)	20
Bell Rock*	56° 26′N	02° 24′W	1929-59 (26-30)	124
Leuchars*	56° 23′N	02° 52′W	1949-59 (9-11)	41/40
Edinburgh	55° 55′N	03° 11′W	1915-59 (43-45)	23
Tiree*	56° 30′N	06° 53′W	1927-59 (31-33)	42/47
Millport	55° 45′N	04° 54′W	1950-59 (7-9)	34
Paisley	55° 51′N	04° 26′W	1914-59 (45-46)	31
Renfrew*	55° 52′N	04° 24′W	1946-59 (13-14)	35/39
Abbotsinch	55° 52′N	04° 26′W	1933-46 (12-13)	34
Prestwick*	55° 30′N	04° 35′W	1944-59 (14-16)	35/40/33
Eskdalemuir*	55° 19′N	03° 12′W	1914-59 (45-46)	35
Point of Ayre	54° 25′N	04° 22′W	1936-59 (23-24)	35
Durham	54° 46′N	01° 35′W	1937-59 (20-23)	33
South Shields*	55° 00′N	01° 26′W	1934-59 (25-26)	44
Catterick	54° 22′N	01° 37′W	1932-43 (10-11)	33
Linton-on-Ouse	54° 03′N	01° 15′W	1944-57 (5-9)	75
Spurn Head	53° 35′N	00° 07′E	1922-59 (31-35)	34
Cranwell*	53° 02′N	00° 30′W	1928-59 (25-31)	33/47
Gorleston	52° 35′N	01° 43′E	1913-59 (37-42)	34
Mildenhall*	52° 22′N	00° 28′E	1935-59 (24-25)	60
Felixstowe*	51° 57′N	01° 20′E	1931-59 (20-22)	40/65
Dunstable*	51° 53′N	00° 33′W	1943-59 (14-16)	33
Cardington*	52° 07′N	00° 25′W	1932-59 (26-28)	135
Stevenage	51° 55′N	00° 11′W	1950-59 (7-10)	33
Rothamsted	51° 48′N	00° 21′W	1954-59 (5-6)	33
Shoeburyness*	51° 32′N	00° 49′E	1926-59 (32-34)	91
Leicester	52° 38′N	01° 05′W	1937-51 (9-14)	33
Edgbaston*	52° 28′N	01° 56′W	1924-59 (35-36)	73
Keele*	53° 00′N	02° 16′W	1953-59 (7)	40
Avonmouth	51° 30′N	02° 43′W	1952-59 (7-8)	33
Kingsway*	51° 31′N	00° 07′W	1943-54 (10-12)	30/40
South Kensington	51° 30′N	00° 10′W	1930-39 (9-10)	30
Hampton*	51° 25′N	00° 22′W	1950-59 (9-10)	100
Kew*	51° 28′N	00° 19′W	1931-59 (29)	50
Croydon*	51° 21′N	00° 07′W	1928-59 (27-30)	70
Manston	51° 21′N	01° 22′E	1943-55 (10-13)	46
Rye	50° 58′N	00° 48′E	1945-52 (7-8)	33
Dover	51° 07′N	01° 19′E	1924-59 (25-29)	60/54/60
Lympne	51° 05′N	01° 01′E	1922-54 (28-32)	48
Thorney Island*	50° 49′N	00° 56′W	1943-59 (17)	42
Calshot	50° 49′N	01° 18′W	1920-42 (21-23)	42
South Farnborough*	51° 17′N	00° 45′W	1945-59 (14-15)	35
Abingdon	51° 41′N	01° 19′W	1944-59 (13-15)	40
Larkhill	51° 12′N	01° 48′W	1931-59 (27-29)	36

Station	Lat.	Long.	Years used	Effective height of anemograph
				feet
Worthy Down	51° 07′N	01° 19′W	1926-33 (8)	34
Boscombe Down*	51° 10′N	01° 45′W	1932-59 (26-28)	33/55
Porton	51° 07′N	01° 42′W	1954-59 (4-6)	44
Sellafield*	54° 25′N	03° 30′W	1949-59 (8-11)	35
Fleetwood*	53° 56′N	03° 01′W	1923-59 (32-36)	31
Barton	53° 28′N	02° 23′W	1934-42 (8-9)	80
Southport	53° 40′N	02° 58′W	1913-59 (44-46)	51/33/36/33
Speke*	53° 21′N	02° 53′W	1948-59 (10-12)	65
Bidston	53° 24′N	03° 04′W	1929-59 (29-31)	39
Ringway*	53° 21′N	02° 16′W	1941-59 (14-16)	40/30
Sealand	53° 13′N	03° 00′W	1928-48 (19-20)	42
Holyhead*	53° 19′N	04° 37′W	1952-59 (19-20)	35
Valley	53° 15′N	04° 32′W	1952-59 (7-8)	40
Aberporth*	52° 08′N	04° 34′W	1952-59 (7-8)	41
Kete	51° 42′N	05° 11′W	1951-58 (3-8)	37
Milford Haven	51° 43′N	05° 02′W	1951-59 (6-9)	35
Port Talbot	51° 34′N	03° 45′W	1952-59 (4-8)	35
St Ann's Head	51° 41′N	05° 10′W	1935-51 (14-16)	212
Plymouth Hoe	50° 22′N	04° 08′W	1921-59 (33-37)	65
Lizard*	49° 57′N	05° 12′W	1935-59 (19-24)	60
Pendennis	50° 09′N	05° 05′W	1929-53 (20-24)	256
Scilly*	49° 56′N	06° 18′W	1928-59 (30-32)	57
Aldergrove*	54° 39′N	06° 13′W	1927-59 (31-32)	20/42/55

The entries under 'Years used' in the above list are the complete periods (ending 1959) during which records were available and, in brackets, the numbers of years used. The latter may be different in different months because of missing or defective records. In the 'Effective height' column there is sometimes more than one entry, indicating that changes took place at the station during the period considered. The effective height of an anemograph is the estimated height above open level terrain in its vicinity at which wind speeds would be the same as those actually recorded by the instrument concerned. The effective heights given for St Ann's Head and Pendennis, namely 212 and 256 feet respectively, are the actual heights of the vanes above mean sea level, it being considered that these values are more realistic for anemometers openly exposed on high ground immediately overlooking the sea than those formerly adopted for these stations. Asterisks against the names of certain stations indicate that monthly and annual wind speed and direction summaries based on hourly mean values are given in Table X (see pages 59 to 233.

Table III is similar to Table II but presents means of the highest gust speeds recorded in each month and the maximum gust speed for each month, for the same stations and over the same periods.

Tables IV to VII give for 43 anemograph stations, using all available data for the period 1950-59 (except that for Kingsway the period is 1945-54), the average number of days in each month and the year in which gust speeds exceeded 33, 40, 50 and 60 knots respectively. At some stations the data were incomplete in some months but the averages are based on records from eight or more years, except for the following:

Gorleston	6-8 years	Ringway	7-8 years
Keele	7-8 years	Valley	7-8 years

Positions and effective heights of the anemographs concerned are included in the list already given on pages 2-3.

Tables VIII and IX present for the same 43 stations and periods, the average numbers of hours in each month and year with gusts exceeding 33 and 47 knots respectively. These hours with gusts were obtained by the following method:

(a) In each period during which gusts above the specified limit occurred the number of hours from the first gust to the last was counted.

(b) If in a period there was an interval of 60 minutes or more during which no gust exceeded the limit then there were two periods to be considered as in *(a)*.

(c) Anything less than a complete hour was counted as an hour, thus 65 minutes from the first gust to last was counted as 2 hours.

(d) If a period with gusts included midnight the number of hours for the whole period was allocated to the two days in proportion to the duration before and after midnight; e.g. total duration 410 minutes, 130 before and 280 after midnight, the 7 hours was allocated 2 before and 5 after midnight; total duration 50 minutes, 30 before and 20 after midnight, the one hour was allocated to the first day, nothing to the second.

Table X consists of monthly and annual average percentage frequencies of hourly mean wind speeds and directions, combined, for 35 anemograph stations (those marked by asterisks in the list on pages 2-3). The ranges of wind speed used are calm, 1-3, 4-6, 7-10, 11-16, 17-21, 22-27, 28-33, 34-40, 41-47, 48-55, 56-63 and over 63 knots, corresponding to forces 0-12 on the Beaufort scale in the case of anemographs with effective heights of 10 metres (33 feet). The speeds used were those actually recorded, i.e. they have not been corrected to the standard height of 33 feet. The direction ranges are 12 in number, each of 30 degrees, thus avoiding the bias towards the cardinal points which occurs when 8 or 16 point analyses are made using directions measured to the nearest 10 degrees. For each station the tables are preceded by a brief description of the exposure of the anemograph, information on its position, height above mean sea level, height above ground, height above buildings where appropriate, effective height and notes of any changes that occurred during the period. The period covered is as far as possible the 10-year period 1950-59 but the actual years used are stated.

Tables XI and XII give, for hourly mean speeds and gust speeds, respectively, the maximum values that are likely to be exceeded, on the average, only once in 10, 20, 50 and 100 years, together with the mean annual maxima and the highest recorded speeds at 66 anemograph stations. In all cases the speeds have been reduced to the standard height of 33 feet above the ground using a power law expression with an index of 0.17 for mean speeds and one with an index of 0.085 for gusts. These probable extremes have been computed by means of the statistical theory of extreme values, as described by Shellard[1]. The period and number of years of record used is given for each station, data for all available years up to and including 1965 having been used. These figures are therefore a more up to date version of previously published values based on periods ending 1954[1], 1959[2] and 1963[3]. Particulars of the stations which are not listed on pages 2-3 are as follows:

Station	Lat.	Long.	Effective height
			feet
Isle of Grain	51° 27′N	00° 43′E	33
Moor House	54° 41′N	02° 23′W	45

The figures given for Edinburgh in Tables XI and XII have been adjusted to relate to the new electrical anemograph and to an effective height of 33 feet. The figures for Edinburgh in Tables II to IX inclusive have not been so adjusted and relate to the old pressure-tube anemograph with half-inch pipes and to an effective height of 23 feet.

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2. SHELLARD, H.C.: Extreme wind speeds over the United Kingdom for periods ending 1959. *Met. Mag., London,* **91**, 1962, p.39.

3. SHELLARD, H.C.; Extreme wind speeds over the United Kingdom for periods ending 1963. *Clim. Memor., met. Off., London,* No.50, 1965, p.1.

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59

LERWICK

Month	GMT	Beaufort force					Direction							
		⩾8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		⩾34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	2.9	8.4	10.3	7.7	1.7	3.7	1.2	1.7	2.3	5.3	4.5	5.9	4.7
	09	2.5	7.5	11.0	7.9	2.1	5.0	0.7	1.2	2.6	5.8	5.0	4.6	4.0
	15	3.0	8.6	10.0	7.6	1.8	5.2	1.0	1.2	2.0	5.9	4.7	4.8	4.4
	21	2.8	8.3	9.6	8.4	1.9	5.3	0.7	1.7	2.8	5.3	4.9	4.5	3.9
FEBRUARY	03	2.3	6.2	9.5	7.7	2.5	4.8	1.1	1.7	2.2	4.9	4.4	3.4	3.2
	09	1.6	6.6	10.0	8.7	1.3	5.9	1.2	1.4	2.7	4.9	5.0	4.0	1.8
	15	1.6	7.6	11.6	6.2	1.2	5.5	1.8	0.9	3.0	4.5	4.3	4.2	2.8
	21	1.4	7.4	10.1	7.6	1.7	5.4	1.1	1.6	2.9	5.2	3.5	4.3	2.5
MARCH	03	0.8	6.8	13.9	8.2	1.3	4.2	1.5	2.2	4.4	6.9	4.2	3.6	2.7
	09	1.0	8.1	13.9	7.3	0.7	4.8	1.6	3.0	3.5	7.8	3.7	3.6	2.3
	15	0.7	9.4	13.9	6.7	0.3	3.4	2.0	2.7	5.1	7.5	3.5	4.0	2.5
	21	0.7	7.4	12.7	8.3	1.9	4.2	1.6	3.1	4.3	6.3	3.2	3.7	2.7
APRIL	03	0.4	3.7	11.5	12.4	2.0	4.7	1.2	1.0	1.7	5.5	5.2	4.7	4.0
	09	0.2	6.5	13.0	9.9	0.4	4.8	1.8	1.4	2.3	5.9	3.9	5.3	4.2
	15	0.7	5.4	15.9	7.6	0.4	3.1	2.9	1.1	2.2	5.8	4.7	5.9	3.9
	21	0.3	3.6	11.9	11.1	3.1	4.9	0.9	0.9	1.3	5.9	4.1	5.6	3.3
MAY	03	0.3	2.1	10.7	14.3	3.6	5.6	2.4	2.8	3.3	2.8	2.3	4.1	4.1
	09	0.3	4.1	12.7	13.1	0.8	4.4	5.0	4.1	4.3	3.1	2.1	4.3	2.9
	15	2.0	4.5	14.6	10.8	0.9	3.5	4.0	3.0	4.8	4.2	2.3	4.7	3.6
	21	0.3	1.9	11.9	14.4	2.5	5.0	3.4	3.4	2.5	3.4	2.4	4.7	3.7
JUNE	03	0	3.1	10.4	12.9	3.6	4.0	2.6	1.6	2.4	5.0	2.7	4.2	3.9
	09	0.4	4.0	13.2	11.3	1.1	2.8	5.0	1.7	3.2	4.7	3.1	4.0	4.4
	15	0.5	4.1	13.7	11.5	0.2	2.4	3.8	2.7	3.8	5.1	3.2	5.0	3.8
	21	0	3.3	10.4	13.9	2.4	4.6	3.5	1.6	3.0	4.8	3.0	3.9	3.2

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

LERWICK

Month	GMT	Beaufort force					Direction							
		≥ 8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		≥ 34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JULY	03	0	2.2	12.2	13.9	2.7	4.3	1.6	2.1	2.1	2.9	4.3	6.9	4.1
	09	0	3.2	14.9	12.1	0.8	4.3	2.6	3.0	3.5	3.4	3.6	6.1	3.7
	15	0	3.6	15.5	10.9	1.0	3.1	2.5	2.4	4.1	4.2	3.4	7.2	3.1
	21	0	1.4	13.1	14.4	2.1	4.8	1.0	3.1	2.7	3.6	3.7	5.9	4.1
AUGUST	03	0.2	2.6	10.0	15.8	2.4	4.9	1.2	2.6	2.3	5.2	3.0	5.2	4.2
	09	0.2	2.6	14.9	12.0	1.3	4.4	2.4	2.6	4.4	4.8	4.1	4.1	2.9
	15	0.3	3.5	15.0	12.0	0.2	3.3	3.0	2.5	4.4	5.9	3.7	4.7	3.3
	21	0	2.3	10.5	15.8	2.4	5.3	1.7	2.3	3.1	5.5	3.5	4.1	3.1
SEPTEMBER	03	0.4	4.4	11.3	10.9	3.0	2.7	0.9	1.0	2.9	6.1	3.6	5.3	4.5
	09	0.2	5.3	12.6	10.7	1.2	3.5	1.0	1.2	3.1	7.2	3.6	5.5	3.7
	15	0.2	5.7	15.6	7.8	0.7	2.9	0.7	0.6	4.2	7.6	3.7	5.9	3.7
	21	0.1	3.9	12.3	10.9	2.8	3.2	0.8	1.0	3.1	5.9	4.0	5.1	4.1
OCTOBER	03	1.2	8.2	11.8	8.4	1.4	2.6	0.6	1.0	2.1	8.4	5.6	5.9	3.4
	09	1.2	6.9	14.7	7.0	1.2	3.3	0.7	1.4	3.6	7.6	5.2	4.4	3.6
	15	1.7	8.0	14.4	6.4	0.5	3.2	1.3	0.9	2.5	8.0	5.7	6.5	2.4
	21	1.3	6.0	13.0	9.4	1.3	2.8	0.4	1.1	3.1	7.6	5.1	6.3	3.3
NOVEMBER	03	1.1	8.4	10.0	8.1	2.4	2.9	1.0	1.7	3.3	5.2	4.1	4.9	4.5
	09	0.9	7.6	11.4	8.6	1.6	3.5	1.2	1.6	3.5	6.4	4.0	4.5	3.7
	15	1.1	9.0	11.1	7.4	1.4	3.5	0.9	1.5	2.7	6.7	4.2	5.9	3.2
	21	1.4	7.3	11.2	8.0	2.1	4.0	0.9	1.8	2.8	5.6	4.5	5.0	3.3
DECEMBER	03	2.7	8.0	11.1	7.4	1.8	3.2	0.9	1.6	2.9	5.7	5.0	5.5	4.4
	09	2.3	8.8	11.4	6.6	1.9	3.9	1.1	1.4	3.3	5.6	5.0	4.9	3.9
	15	2.2	9.1	11.5	6.5	1.7	3.8	1.3	1.4	3.4	5.8	5.9	4.9	2.8
	21	2.4	8.8	11.5	6.5	1.8	3.6	1.0	1.5	3.7	5.6	5.7	4.8	3.3

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59

WICK

Month	GMT	Beaufort force					Direction							
		≥ 8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
		knots												
		≥ 34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	0.3	4.2	13.6	12.1	0.8	2.7	0.3	1.2	2.8	8.2	3.9	8.1	3.0
	09	0.2	3.8	14.8	11.3	0.9	2.2	0.3	1.2	3.5	8.1	4.3	7.4	3.1
	15	0.4	4.2	14.9	10.9	0.6	2.9	0.4	1.0	3.8	7.3	3.5	7.8	3.7
	21	0.8	4.1	13.9	10.5	1.7	3.0	0.5	1.3	3.3	6.7	3.9	7.3	3.3
FEBRUARY	03	0.3	3.4	12.2	10.5	1.8	2.5	0.6	2.0	2.8	5.6	3.5	6.5	2.9
	09	0.1	4.0	11.7	11.3	1.1	2.8	0.8	1.3	3.3	6.2	3.2	6.2	3.3
	15	0.4	4.2	12.9	9.7	1.0	4.1	1.2	1.6	3.2	5.6	2.9	5.6	3.0
	21	0.1	3.0	12.2	11.7	1.2	3.1	1.0	2.1	3.1	5.8	3.3	6.1	2.5
MARCH	03	0.2	2.4	15.0	12.0	1.4	2.2	1.2	2.0	6.6	7.4	2.7	5.2	2.3
	09	0.1	3.6	15.6	10.5	1.2	2.3	1.3	2.2	6.6	7.7	2.4	5.4	1.9
	15	0.2	4.8	17.3	8.5	0.2	2.8	1.2	3.0	7.8	6.2	1.8	4.6	3.4
	21	0.2	3.2	13.6	12.9	1.1	2.6	1.5	2.2	8.2	6.2	2.3	5.0	1.9
APRIL	03	0	1.9	9.3	16.6	2.2	2.7	0.7	0.8	2.4	7.6	2.5	8.0	3.1
	09	0.3	3.1	13.7	12.2	0.7	4.2	1.1	1.8	3.4	6.2	2.2	6.6	3.8
	15	0.3	3.7	15.4	10.6	0	2.9	1.6	2.9	6.5	4.4	1.5	5.3	4.9
	21	0.2	0.8	10.1	16.8	2.1	3.5	0.6	2.1	3.6	5.7	3.3	5.9	3.2
MAY	03	0	0.8	9.8	17.3	3.1	2.8	2.0	2.6	6.3	2.9	2.0	5.1	4.2
	09	0.1	2.5	13.8	14.3	0.3	2.8	2.8	4.5	6.8	3.7	0.9	3.7	5.5
	15	0	3.1	14.8	12.8	0.3	2.3	3.8	5.8	7.9	1.7	1.0	2.6	5.6
	21	0	0.9	10.9	17.2	2.0	2.9	3.2	4.8	6.0	2.1	1.3	3.8	4.9
JUNE	03	0	0.7	7.7	18.4	3.2	2.0	2.1	3.0	4.2	4.0	2.7	5.4	3.4
	09	0	1.3	13.6	14.4	0.7	3.1	2.4	3.5	6.5	3.6	1.2	4.3	4.7
	15	0	2.0	14.5	13.5	0	2.0	3.1	5.1	7.7	2.4	1.1	3.2	5.4
	21	0	0.4	8.5	19.0	2.1	2.8	2.1	5.1	5.0	2.6	1.9	3.8	4.6

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

WICK

Month	GMT	Beaufort force					Direction							
		⩾8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
		knots												
		⩾34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JULY	03	0	0.7	7.7	18.2	4.4	2.5	1.6	2.9	3.0	3.7	2.8	6.4	3.7
	09	0	1.0	12.6	15.8	1.6	3.3	1.8	2.7	5.4	3.9	2.1	4.9	5.3
	15	0	1.8	12.6	16.5	0.1	3.6	1.9	5.3	6.0	2.5	1.5	3.2	6.9
	21	0	0.5	9.0	17.4	4.1	2.2	1.5	3.8	4.2	3.2	1.1	5.2	5.7
AUGUST	03	0	0.7	7.9	19.3	3.1	2.4	1.0	2.3	3.5	5.8	2.6	6.5	3.8
	09	0.1	1.2	12.8	15.4	1.5	3.7	1.8	2.4	4.7	6.3	1.7	4.7	4.2
	15	0	1.9	13.1	15.5	0.5	3.5	2.1	5.0	6.5	3.5	1.7	2.9	5.3
	21	0	0.4	7.6	19.9	3.1	2.4	2.1	3.7	4.6	3.8	2.7	4.8	3.8
SEPTEMBER	03	0	1.5	11.1	15.4	2.0	1.6	0.8	0.8	4.3	6.7	3.9	6.6	3.3
	09	0.4	2.5	14.3	11.3	1.5	2.4	0.4	0.9	4.5	7.6	3.1	6.4	3.2
	15	0.1	3.0	15.1	11.7	0.1	2.4	1.2	2.2	6.5	6.1	1.9	5.0	4.6
	21	0	1.5	11.2	13.8	3.5	1.5	0.7	1.6	4.6	6.3	3.3	5.2	3.3
OCTOBER	03	0.2	2.5	14.3	12.8	1.2	1.5	0.1	0.7	3.7	8.9	5.2	7.1	2.6
	09	0.2	2.8	16.1	10.9	1.0	2.0	0.1	0.9	2.9	9.4	5.3	7.2	2.2
	15	0.3	3.6	15.7	10.8	0.6	2.6	0.5	0.6	4.5	8.9	2.9	7.1	3.3
	21	0.2	2.1	14.9	12.5	1.3	2.3	0.1	0.7	3.6	9.3	5.5	6.1	2.1
NOVEMBER	03	0.1	3.3	12.5	13.1	1.0	1.6	0.8	1.3	3.6	6.8	4.4	7.8	2.7
	09	0.1	2.7	13.4	13.2	0.6	1.7	1.0	1.7	3.2	7.6	3.8	8.1	2.3
	15	0.4	3.6	13.4	11.2	1.4	2.3	0.6	1.9	3.6	7.1	3.6	6.4	3.1
	21	0.4	3.0	11.6	13.1	1.9	2.1	0.9	1.5	3.7	6.5	3.5	7.4	2.5
DECEMBER	03	0.7	5.5	12.4	11.1	1.3	1.9	0.6	1.4	3.3	7.6	4.4	8.1	2.4
	09	0.6	4.7	13.4	11.8	0.5	1.5	1.0	1.2	3.4	8.2	4.9	7.7	2.6
	15	0.6	4.2	14.4	11.1	0.7	2.0	1.3	0.7	4.0	7.0	5.1	7.6	2.6
	21	0.4	4.2	14.7	10.6	1.1	1.9	0.7	1.6	2.8	7.7	5.5	7.7	2.0

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59

STORNOWAY

Month	GMT	Beaufort force					Direction							
		⩾8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		⩾ 34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	1.0	6.1	12.0	9.5	2.4	3.2	0.9	0.9	1.4	7.9	5.3	5.6	3.4
	09	1.3	7.1	12.0	9.6	1.0	4.1	0.4	1.2	1.8	8.5	6.9	4.0	3.1
	15	1.0	6.6	13.5	9.0	0.9	3.4	0.4	1.6	1.2	8.0	5.7	6.0	3.8
	21	1.4	6.0	12.8	8.1	2.7	2.8	0.6	1.5	1.5	7.7	5.6	5.2	3.4
FEBRUARY	03	0.8	4.4	11.8	9.2	2.0	3.8	0.8	1.9	1.6	6.6	5.3	2.7	3.5
	09	0.8	4.2	11.9	9.8	1.5	3.7	1.2	2.0	2.2	6.2	5.0	4.2	2.2
	15	0.9	5.5	15.6	5.8	0.8	4.2	1.2	2.5	2.0	7.8	3.7	3.3	2.7
	21	0.3	4.6	12.8	8.8	1.7	3.9	1.5	2.1	1.6	5.7	6.4	3.5	1.8
MARCH	03	0.1	4.6	13.3	10.1	2.9	2.5	1.2	2.9	4.8	7.6	3.4	3.4	2.3
	09	0.1	3.6	16.2	9.2	1.9	2.6	1.3	3.1	5.0	8.2	4.3	2.9	1.7
	15	0.1	5.2	17.1	8.6	0	2.8	2.9	4.0	3.5	9.2	3.2	3.5	1.9
	21	0.4	2.7	14.8	10.7	2.4	2.7	1.3	4.3	4.1	6.7	4.3	3.1	2.1
APRIL	03	0.4	3.3	10.3	13.1	2.9	4.1	0.8	1.3	1.0	7.2	4.7	3.8	4.2
	09	0.5	4.3	15.5	8.4	1.3	4.0	2.2	2.0	2.0	7.8	3.8	4.6	2.3
	15	0.3	5.9	17.0	6.5	0.3	3.2	4.6	1.3	1.5	7.6	3.1	5.0	3.4
	21	0.3	2.4	12.4	13.1	1.8	4.3	3.5	1.3	1.0	6.1	5.1	4.3	2.6
MAY	03	0.1	1.6	10.3	15.1	3.9	3.5	2.9	4.2	2.7	3.4	3.1	3.1	4.2
	09	0	3.1	14.3	13.2	0.4	2.6	6.4	3.2	4.2	5.9	1.8	3.8	2.7
	15	0	3.9	17.4	9.5	0.2	2.8	9.9	2.9	2.3	5.8	1.3	3.9	1.9
	21	0.1	2.0	13.3	14.3	1.3	4.9	6.5	3.8	2.1	3.7	1.6	3.5	3.6
JUNE	03	0	1.0	10.0	14.7	4.3	3.1	2.9	3.4	1.2	4.5	3.9	3.4	3.3
	09	0	2.4	16.0	11.3	0.3	3.6	5.0	1.9	2.1	7.2	3.1	3.3	3.5
	15	0	3.7	18.5	7.7	0.1	2.2	7.9	1.9	1.7	6.9	2.9	2.9	3.5
	21	0	1.7	11.9	15.2	1.2	4.8	5.7	2.7	1.6	5.1	2.1	3.6	3.2

TABLE I – AVERAGE FREQUENCY OF WIND-SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

STORNOWAY

Month	GMT	Beaufort force					Direction							
		≥ 8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		≥ 34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JULY	03	0	1.0	9.4	16.9	3.7	3.3	2.5	1.3	1.5	7.3	4.7	3.5	3.2
	09	0	1.5	16.7	12.6	0.2	3.0	3.9	1.7	2.1	9.3	3.0	5.1	2.7
	15	0	1.5	19.8	9.6	0.1	2.4	6.0	1.8	1.5	7.8	3.6	4.3	3.5
	21	0	0.8	10.5	19.1	0.6	4.7	4.0	1.8	2.0	6.2	4.1	4.9	2.7
AUGUST	03	0.1	1.1	10.8	14.8	4.2	3.7	2.5	2.5	1.6	7.4	4.4	2.5	2.2
	09	0.1	2.5	14.9	12.5	1.0	2.5	4.0	2.6	2.1	9.0	3.2	4.1	2.5
	15	0.1	3.0	18.3	9.3	0.3	2.1	6.1	1.4	1.8	9.1	2.7	4.5	3.0
	21	0	1.5	10.9	16.4	2.2	3.7	4.5	2.3	1.2	6.6	4.4	4.0	2.1
SEPTEMBER	03	0.2	2.1	12.3	11.7	3.7	2.1	1.3	1.2	2.4	6.7	5.0	4.1	3.5
	09	0.1	2.8	17.2	8.4	1.5	2.9	1.6	2.0	2.5	8.7	3.8	4.4	2.6
	15	0.1	4.0	17.6	8.2	0.1	2.2	3.0	2.4	2.1	8.3	3.3	4.8	3.8
	21	0.1	2.5	13.1	12.5	1.8	3.0	2.1	2.1	1.9	7.1	5.1	3.8	3.1
OCTOBER	03	0.3	5.3	13.2	10.1	2.1	2.1	0.2	0.7	2.7	8.3	7.4	4.9	2.6
	09	1.1	4.8	14.8	9.1	1.2	2.8	0.6	1.1	2.2	8.7	8.0	4.2	2.2
	15	0.5	5.9	17.6	6.7	0.3	2.7	0.9	1.2	2.5	9.3	5.9	5.6	2.6
	21	0.4	3.9	13.0	11.8	1.9	2.1	0.4	0.9	2.7	8.2	8.3	3.8	2.7
NOVEMBER	03	0.5	4.2	11.6	11.4	2.3	2.1	0.6	1.7	2.1	7.2	6.9	4.1	3.0
	09	0.7	3.9	12.1	11.2	2.1	2.4	0.8	2.1	2.1	7.0	6.6	3.5	3.4
	15	0.6	5.5	13.9	9.3	0.7	3.1	0.8	2.5	2.1	7.1	6.4	4.3	3.0
	21	0.4	4.5	11.7	11.5	1.9	2.1	0.5	2.3	2.1	6.8	6.3	5.0	3.0
DECEMBER	03	1.3	6.8	12.0	9.5	1.4	2.7	0.6	2.1	3.3	6.4	6.9	5.2	2.4
	09	1.1	7.1	13.2	8.1	1.5	2.7	0.5	3.3	2.2	6.8	6.9	4.2	2.9
	15	0.9	7.5	11.9	9.4	1.3	2.5	0.8	2.5	2.4	6.5	7.3	5.9	1.8
	21	0.7	5.8	14.4	8.6	1.5	2.7	0.8	2.7	2.6	6.6	6.8	4.9	2.4

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59

DYCE

Month	GMT	Beaufort force					Direction							
		≥8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		≥34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	0	3.0	8.5	12.4	7.1	1.8	0	0.5	1.4	6.1	3.5	5.4	5.2
	09	0.1	1.8	10.9	12.3	5.9	1.1	0.3	0.4	2.3	6.3	3.7	5.5	5.5
	15	0.2	2.0	13.5	10.7	4.6	1.5	0.1	0.7	1.6	7.1	4.3	5.5	5.6
	21	0.3	2.9	10.4	11.9	5.5	2.3	0.1	0.5	1.7	7.1	3.5	6.0	4.3
FEBRUARY	03	0.1	0.8	8.6	10.9	7.8	2.1	0.4	0.4	1.8	3.9	3.5	3.7	4.6
	09	0.1	1.6	9.2	11.5	5.8	3.1	0	1.0	1.8	4.9	3.0	3.9	4.7
	15	0.1	3.0	10.5	11.9	2.7	3.4	0.2	1.5	1.7	6.4	3.1	3.9	5.3
	21	0	1.7	7.6	12.8	6.1	3.3	0.5	0.4	2.4	4.1	3.4	3.9	4.1
MARCH	03	0	1.3	7.8	13.1	8.8	2.2	0.2	1.6	4.0	6.1	2.1	3.3	2.7
	09	0	0.9	10.2	14.7	5.2	2.7	0.7	1.4	4.2	7.7	2.2	3.5	3.4
	15	0	1.5	15.3	12.7	1.5	2.8	1.1	3.1	4.9	8.9	2.4	1.9	4.4
	21	0	0.7	9.9	12.9	7.5	2.4	0.1	1.5	5.0	7.0	1.4	3.4	2.7
APRIL	03	0	0.8	6.7	12.3	10.2	1.8	0.4	0.8	0.7	5.3	2.0	4.1	4.7
	09	0	2.3	11.1	14.2	2.4	3.7	0.6	0.8	1.0	7.3	3.4	3.6	7.2
	15	0	1.7	15.4	12.0	0.9	4.2	1.1	3.3	3.5	7.1	2.7	2.7	4.5
	21	0	0.4	7.0	14.5	8.1	2.7	0.5	0.6	0.8	6.3	3.1	4.9	3.0
MAY	03	0	0.2	6.0	13.4	11.4	3.2	0.5	1.1	2.1	3.3	1.8	3.2	4.4
	09	0	0.9	10.7	16.8	2.6	5.8	1.9	3.8	3.5	3.8	2.0	2.6	5.0
	15	0	1.3	13.1	16.0	0.6	4.6	1.6	5.4	7.1	4.4	1.2	1.7	4.4
	21	0	0.1	6.2	17.0	7.7	5.0	1.2	1.9	3.1	4.9	1.0	2.9	3.3
JUNE	03	0	0.4	4.3	13.6	11.7	2.5	0.2	0.8	1.4	3.6	1.8	3.3	4.7
	09	0	0.3	9.7	17.0	3.0	4.8	1.2	2.1	3.3	5.4	2.6	2.7	4.9
	15	0	0.8	10.7	17.8	0.7	4.4	1.1	4.6	6.4	5.9	1.7	2.4	2.8
	21	0	0.4	4.6	18.6	6.4	3.4	1.3	2.0	3.2	6.6	1.4	3.0	2.7

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

DYCE

Month	GMT	Beaufort force					Direction							
		≥8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
		knots												
		≥34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JULY	03	0	0.1	3.8	13.1	14.0	2.5	0.4	0.8	1.1	2.6	1.4	3.1	5.1
	09	0	0.1	9.3	17.8	3.8	3.7	0.4	2.6	2.5	5.5	2.2	3.3	7.0
	15	0	0.3	12.0	17.7	1.0	3.6	1.0	4.3	5.4	7.0	1.9	2.1	4.7
	21	0	0.2	3.9	17.9	9.0	2.2	0.6	1.3	2.2	6.9	1.2	2.6	5.0
AUGUST	03	0	0.1	4.3	13.8	12.8	2.5	0.3	0.9	2.0	4.1	1.2	3.2	4.0
	09	0	0.3	9.5	17.6	3.6	4.3	1.0	1.0	2.7	7.0	2.8	3.5	5.1
	15	0	1.2	11.1	18.3	0.4	4.4	1.0	2.9	6.3	7.8	2.1	1.8	4.3
	21	0	0.3	4.6	16.5	9.6	2.4	0.2	1.4	2.7	6.1	1.6	2.5	4.5
SEPTEMBER	03	0	0.7	7.2	12.6	9.5	1.7	0.2	0.9	1.8	4.4	3.1	4.7	3.7
	09	0.2	1.3	10.4	14.4	3.7	1.9	0.4	1.0	2.0	7.4	4.1	3.8	5.7
	15	0	1.7	14.0	14.1	0.2	2.8	0.7	1.6	4.3	8.4	2.8	3.8	5.4
	21	0	0.8	6.9	14.9	7.4	1.6	0.1	0.6	2.3	6.7	3.7	4.1	3.5
OCTOBER	03	0.2	0.7	9.1	14.1	6.9	1.0	0	0.5	2.8	7.6	4.4	3.9	3.9
	09	0.1	1.2	10.8	13.9	5.0	1.5	0.1	0.5	2.6	7.8	5.0	4.7	3.8
	15	0.2	1.1	13.4	14.4	1.9	2.8	0.3	0.5	2.3	9.9	5.0	4.3	4.0
	21	0.1	1.1	9.3	14.2	6.3	1.1	0	0.4	2.2	8.2	4.4	4.5	3.9
NOVEMBER	03	0	1.3	8.7	12.2	7.8	1.3	0.5	0.8	2.1	6.1	2.2	4.7	4.5
	09	0	1.2	9.5	12.6	6.7	1.8	0.2	1.1	1.9	6.9	3.0	4.6	3.8
	15	0.1	2.2	9.1	14.2	4.4	2.3	0.4	1.5	2.1	7.6	2.7	4.3	4.7
	21	0.1	1.0	9.5	13.0	6.4	1.9	0.3	0.8	2.4	5.2	3.6	5.0	4.4
DECEMBER	03	0.1	1.5	11.9	11.6	5.9	1.7	0.1	1.0	2.1	6.7	4.7	5.6	3.2
	09	0.1	1.9	12.1	12.1	4.8	2.4	0.5	1.2	1.9	5.9	4.2	6.0	4.1
	15	0.2	1.7	11.8	13.1	4.2	1.3	0.2	1.3	1.9	7.5	4.3	5.8	4.5
	21	0.1	1.3	11.8	11.6	6.2	1.2	0.5	0.8	2.6	5.9	5.0	4.9	3.9

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59

LEUCHARS

Month	GMT	Beaufort force					Direction							
		≥8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		≥34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	0	2.0	7.9	16.5	4.6	1.4	0.6	1.1	2.4	1.7	6.6	10.5	2.1
	09	0	2.2	6.5	19.3	3.0	1.2	0.7	1.8	1.4	2.0	6.0	12.2	2.7
	15	0.1	2.4	8.7	16.5	3.3	1.9	1.1	1.1	2.7	2.0	6.0	9.7	3.2
	21	0.1	2.5	5.9	19.0	3.5	1.7	0.3	1.5	2.3	1.1	6.3	12.0	2.3
FEBRUARY	03	0.1	1.3	5.9	17.5	3.4	3.1	1.0	1.3	1.6	1.4	4.1	9.5	2.8
	09	0	1.4	6.9	16.4	3.5	2.5	0.9	1.9	1.3	1.1	5.0	8.9	3.1
	15	0.1	1.7	9.7	14.9	1.8	2.4	1.8	2.9	2.6	1.4	4.1	7.7	3.5
	21	0.2	1.3	5.2	17.0	4.5	2.6	1.4	1.8	1.8	1.8	4.8	7.5	2.0
MARCH	03	0	0.7	6.9	17.3	6.1	1.6	2.5	3.9	2.0	1.9	4.1	7.7	1.2
	09	0	0.5	8.6	17.4	4.5	1.3	2.2	4.7	2.9	1.7	4.8	7.2	1.7
	15	0	1.7	11.5	17.0	0.8	0.9	1.6	7.8	5.1	2.4	3.7	6.4	2.3
	21	0	0.4	7.7	19.1	3.8	1.8	2.2	4.9	4.2	2.1	4.9	5.8	1.3
APRIL	03	0	0.4	4.9	18.4	6.3	1.5	1.8	1.2	0.9	1.5	6.0	9.3	1.5
	09	0.1	0.9	9.2	17.6	2.2	2.3	1.4	3.4	1.4	1.7	5.1	9.2	3.3
	15	0.2	1.7	12.9	15.0	0.2	2.0	1.3	7.2	3.2	2.0	4.5	7.3	2.3
	21	0.1	0.3	5.0	20.3	4.3	2.2	3.4	3.4	1.5	1.4	5.5	6.9	1.4
MAY	03	0	0.3	5.4	18.1	7.2	1.7	4.7	3.9	1.4	0.6	4.2	5.7	1.6
	09	0.1	0.8	9.7	18.7	1.7	1.6	3.5	7.9	2.6	1.4	3.1	5.9	3.3
	15	0	1.9	12.9	16.0	0.2	0.8	2.6	11.2	5.2	1.6	2.6	4.6	2.2
	21	0	0.1	6.4	22.0	2.5	1.3	5.4	8.0	3.3	0.9	3.0	5.3	1.3
JUNE	03	0	0.2	3.2	20.6	6.0	2.1	2.7	3.8	0.8	1.0	4.0	8.1	1.5
	09	0	0.7	7.5	20.5	1.3	1.2	2.6	7.0	3.0	1.0	3.8	7.6	2.5
	15	0	0.8	10.6	18.3	0.3	1.1	1.5	9.5	3.8	1.8	4.4	6.3	1.3
	21	0	0	5.5	21.1	3.4	1.1	3.8	6.1	2.8	0.8	4.4	6.5	1.1

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

LEUCHARS

Month	GMT	Beaufort force					Direction							
		⩾8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
		knots												
		⩾34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JULY	03	0	0	3.4	19.8	7.8	1.1	2.4	1.5	1.2	0.3	5.4	10.1	1.2
	09	0	0.4	8.0	20.5	2.1	1.2	2.5	4.0	1.9	1.4	5.5	9.2	3.2
	15	0	0.6	11.6	18.7	0.1	0.9	1.8	6.2	3.0	3.2	4.7	8.5	2.6
	21	0	0.1	3.3	24.3	3.3	1.0	3.9	4.1	2.5	1.6	4.0	9.8	0.8
AUGUST	03	0	0.4	2.6	20.4	7.6	1.9	2.4	1.6	1.4	0.9	4.9	8.8	1.5
	09	0	0.5	7.8	20.7	2.0	2.4	2.6	4.0	2.2	1.6	5.7	8.4	2.1
	15	0	1.2	9.1	20.2	0.5	1.6	2.3	8.0	3.1	2.0	4.5	7.3	1.7
	21	0	0.2	3.2	21.9	5.7	1.2	2.6	4.1	2.5	1.6	5.1	7.0	1.2
SEPTEMBER	03	0	0.4	4.9	17.9	6.8	1.1	2.0	1.6	0.7	0.8	4.1	11.6	1.3
	09	0	0.7	9.2	17.3	2.8	1.2	1.6	2.3	2.0	1.3	6.4	9.9	2.5
	15	0	1.7	13.4	14.6	0.3	1.0	1.4	4.6	4.4	2.0	4.6	9.3	2.4
	21	0	0.3	6.4	19.4	3.9	1.4	2.2	2.8	1.9	2.0	4.9	9.2	1.7
OCTOBER	03	0	0.9	9.6	16.9	3.6	1.4	0.5	1.7	2.0	2.1	8.4	9.5	1.8
	09	0	0.9	10.3	16.5	3.3	1.2	0.6	1.5	1.8	1.8	8.1	11.3	1.4
	15	0.1	1.6	13.3	15.2	0.8	1.7	1.3	2.8	2.5	2.5	6.7	10.9	1.8
	21	0	0.8	9.2	17.8	3.2	1.2	0.3	1.3	2.8	2.3	9.1	9.3	1.5
NOVEMBER	03	0.1	0.6	6.8	19.8	2.7	1.3	1.3	0.9	2.5	2.3	5.6	10.9	2.5
	09	0	1.8	6.8	18.2	3.2	1.5	1.4	1.0	1.5	2.2	4.9	12.5	1.8
	15	0.2	1.8	7.6	17.5	2.9	1.7	1.2	1.7	3.1	1.7	6.1	8.9	2.7
	21	0.1	1.4	6.0	19.0	3.5	1.6	1.6	1.8	1.9	1.9	6.1	9.7	1.9
DECEMBER	03	0.1	2.7	8.4	16.7	3.1	1.1	1.0	1.4	1.9	2.1	7.1	11.3	2.0
	09	0.2	3.2	8.2	16.3	3.1	1.3	0.7	1.3	2.5	1.5	7.1	11.6	1.9
	15	0.3	3.2	10.2	14.8	2.5	1.3	1.2	1.3	2.6	1.5	8.4	9.8	2.4
	21	0.1	2.7	8.7	16.6	2.9	1.3	1.1	1.4	2.7	1.3	8.2	10.2	1.9

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59

TIREE

Month	GMT	Beaufort force					Direction							
		⩾8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		⩾34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	1.3	7.2	14.3	7.2	1.0	4.0	2.0	1.0	3.6	7.7	3.3	5.4	3.0
	09	1.0	8.0	14.6	6.3	1.1	4.4	1.8	1.2	3.8	7.3	4.5	4.4	2.5
	15	1.6	7.9	14.1	6.6	0.8	3.8	1.2	1.2	3.1	8.0	4.0	5.6	3.3
	21	1.5	7.4	13.2	7.5	1.4	4.1	1.8	1.3	3.2	7.4	4.2	4.6	3.0
FEBRUARY	03	0.4	5.4	12.5	8.9	1.0	3.9	3.0	2.0	2.7	6.6	3.5	2.8	2.7
	09	0.7	4.9	12.7	8.3	1.6	3.3	2.3	2.0	3.5	6.5	2.9	3.5	2.6
	15	0.6	5.8	14.5	6.7	0.6	4.9	1.5	1.6	3.6	5.5	4.3	3.9	2.3
	21	0.5	4.0	14.6	8.0	1.1	4.2	2.7	1.9	3.1	5.8	2.9	4.2	2.3
MARCH	03	0.1	5.4	15.7	8.8	1.0	2.6	1.5	2.8	7.1	8.1	2.8	2.2	2.9
	09	0.1	6.1	17.2	7.2	0.4	3.1	1.8	2.3	7.8	7.9	2.9	2.3	2.5
	15	0.3	5.5	17.6	7.4	0.2	4.0	1.7	1.5	8.1	6.8	2.7	3.1	2.9
	21	0.3	5.3	14.8	9.4	1.2	3.5	1.4	3.6	7.2	6.1	2.7	3.0	2.3
APRIL	03	0.4	2.4	14.6	11.0	1.6	5.9	1.5	0.6	3.8	5.4	4.0	4.1	3.1
	09	0.3	3.7	17.5	8.1	0.4	5.6	1.6	0.9	2.8	7.4	3.0	5.0	3.3
	15	0.1	4.3	16.4	9.2	0	6.1	0.6	0.3	2.7	6.1	4.0	5.2	5.0
	21	0.1	3.4	11.8	13.0	1.7	5.3	1.8	0.7	2.7	5.3	3.7	4.2	4.6
MAY	03	0.1	1.8	13.2	13.5	2.4	5.7	1.8	2.0	6.6	4.2	1.7	3.1	3.5
	09	0.1	2.3	17.8	9.8	1.0	5.7	2.1	2.6	5.8	5.4	1.6	3.2	3.6
	15	0	1.9	18.2	10.4	0.5	7.8	0.7	1.0	4.5	5.3	2.3	4.4	4.5
	21	0.1	1.3	13.2	14.3	2.1	8.1	2.8	1.8	4.4	2.4	1.9	2.8	4.7
JUNE	03	0	1.1	12.2	13.9	2.8	5.0	1.1	1.7	3.8	4.1	3.7	3.4	4.4
	09	0	1.5	14.9	13.2	0.4	5.7	0.9	1.6	4.7	7.1	3.4	2.8	3.4
	15	0	1.7	16.1	11.8	0.4	6.8	0.6	1.1	2.7	6.4	4.0	3.4	4.6
	21	0	1.5	12.3	12.7	3.5	6.0	1.3	1.7	2.7	3.5	3.5	2.9	4.9

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

TIREE

Month	GMT	Beaufort force					Direction							
		≥8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		≥34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JULY	03	0.1	0.8	12.1	15.4	2.6	5.0	1.3	1.5	2.4	4.2	5.1	4.5	4.4
	09	0	1.8	15.4	13.2	0.6	5.4	1.4	1.0	3.0	6.6	4.0	4.4	4.6
	15	0	1.0	17.8	11.8	0.4	5.9	0.1	0.5	2.2	5.4	5.5	5.5	5.5
	21	0	0.9	10.2	17.4	2.5	4.9	1.4	0.9	2.1	3.9	4.8	5.0	5.5
AUGUST	03	0.2	1.9	11.7	12.6	4.6	4.7	1.5	1.2	3.8	5.0	3.6	4.1	2.5
	09	0.1	2.5	16.3	10.8	1.3	4.9	1.1	1.4	3.8	7.1	3.8	4.6	3.0
	15	0.1	2.1	16.6	11.6	0.6	5.6	0.8	0.9	3.4	6.3	4.7	4.9	3.8
	21	0.1	1.9	11.1	14.9	3.0	5.4	1.9	1.2	3.5	3.9	3.6	5.5	3.0
SEPTEMBER	03	0.2	3.6	14.6	9.9	1.7	3.6	1.6	1.6	3.8	5.9	3.9	5.0	2.9
	09	0.2	3.9	17.0	7.9	1.0	3.4	1.7	2.0	3.8	6.1	3.8	4.7	3.5
	15	0.2	3.8	18.7	6.1	1.2	4.2	0.8	1.0	4.2	5.2	3.5	5.8	4.1
	21	0.3	3.6	14.0	10.0	2.1	3.8	1.3	1.4	3.4	4.8	3.9	5.5	3.8
OCTOBER	03	0.4	7.1	14.0	8.7	0.8	3.2	0.5	0.9	4.1	6.1	6.1	6.6	2.7
	09	0.5	6.7	16.3	6.5	1.0	2.6	0.6	1.1	3.8	7.2	5.2	6.5	3.0
	15	0.7	7.5	16.8	5.6	0.4	3.2	0.6	0.6	3.7	7.2	5.4	6.8	3.1
	21	0.8	6.6	13.2	9.8	0.6	3.1	1.1	0.7	4.2	6.4	5.8	6.1	3.0
NOVEMBER	03	1.0	5.5	12.7	9.2	1.6	2.9	1.5	1.7	3.3	6.4	4.6	4.5	3.5
	09	0.9	5.7	13.2	9.4	0.8	2.6	1.9	1.8	3.1	7.2	4.4	5.1	3.1
	15	1.1	5.6	13.4	8.3	1.6	3.6	1.5	1.4	3.1	6.6	3.9	4.2	4.1
	21	0.4	5.4	13.6	9.2	1.4	3.4	1.8	1.6	3.5	6.4	3.5	5.5	2.9
DECEMBER	03	1.8	8.5	14.5	5.2	1.0	2.8	1.4	1.7	3.3	6.8	4.4	5.6	4.0
	09	1.1	9.1	13.9	5.5	1.4	2.9	1.5	1.6	3.7	7.1	5.2	4.8	2.8
	15	1.2	10.0	11.7	6.9	1.2	1.8	2.0	2.3	3.1	6.2	5.0	5.4	4.0
	21	1.5	8.1	14.3	5.5	1.6	2.6	1.2	2.0	3.7	6.5	4.8	5.3	3.3

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 FROM 1950-59

RENFREW

Month	GMT	Beaufort force ⩾8	6-7	4-5	1-3	Calm	Direction N	NE	E	SE	S	SW	W	NW
		knots ⩾34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	0.2	1.0	6.8	15.3	7.7	0.5	2.4	2.8	2.1	2.7	6.0	5.8	1.0
	09	0.2	1.8	6.5	15.1	7.4	0.6	2.5	2.9	1.4	2.9	5.9	6.8	0.6
	15	0.2	1.8	10.0	14.8	4.2	1.2	2.2	2.6	1.7	3.3	5.4	8.9	1.5
	21	0.1	1.2	6.9	17.2	5.6	0.7	2.1	3.0	1.8	3.5	5.5/ 22.8	7.7/ 22.2	1.1
FEBRUARY	03	0.2	0.9	5.9	14.5	6.7	1.5	2.2	3.7	0.6	2.4	4.5	5.9	0.7
	09	0.1	1.0	6.4	14.4	6.3	1.0	3.2	2.9	0.8	2.4	4.2	6.4	1.0
	15	0	0.6	10.3	15.1	2.2	2.2	3.0	3.5	1.2	2.7	5.0	6.1	2.3
	21	0.2	0.6	6.4	15.7	5.3	1.0	2.5	4.0	0.8	3.1	4.5 15.7	6.1 24.5	0.9
MARCH	03	0	0.8	7.8	16.4	6.0	0.8	3.5	7.4	1.7	2.3	3.5	5.5	0.3
	09	0	0.7	9.8	15.3	5.2	0.7	3.1	8.0	1.8	2.6	3.3	4.9	1.4
	15	0	1.7	15.4	13.1	0.8	1.7	2.9	7.3	2.4	3.5	5.2	4.9	2.3
	21	0	0.4	9.2	17.6	3.8	1.4	3.6	7.3	1.9	3.1	4.1 16.1	5.4 20.7	0.4
APRIL	03	0	0.2	6.2	15.9	7.7	0.7	3.1	2.8	0.5	2.5	4.6	7.0	1.1
	09	0.1	0.4	9.8	15.3	4.4	1.4	2.7	3.4	0.6	2.5	5.6	6.9	2.5
	15	0	1.8	15.8	11.7	0.7	1.6	2.7	3.3	0.8	2.7	6.8	8.5	2.9
	21	0	0.4	5.7	20.6	3.3	1.1	2.5	4.3	0.8	3.3	4.5 21.5	9.0	1.2
MAY	03	0	0.5	6.1	17.4	7.0	0.2	5.2	6.9	0.4	1.9	3.1	5.3	1.0
	09	0	0.5	10.8	17.2	2.5	1.2	5.5	7.2	0.8	2.8	2.8	6.5	1.7
	15	0	1.4	15.4	13.7	0.5	1.1	3.5	7.4	1.1	3.2	3.2	8.7	2.3
	21	0	0.1	9.0	19.8	2.1	0.7	4.4	9.3	0.9	1.7	3.5	7.6	0.8
JUNE	03	0	0.2	4.9	17.8	7.1	0.5	3.5	4.8	0.7	1.8	4.2	7.0	0.4
	09	0	0.3	9.6	18.3	1.8	1.1	2.9	6.3	0.8	1.6	5.5	7.0	3.0
	15	0	0.7	14.8	13.8	0.7	0.9	2.8	5.4	0.6	2.2	5.5	9.3	2.6
	21	0	0.1	6.7	21.0	2.2	0.6	3.2	5.4	0.8	2.9	3.8	10.2	0.9

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

RENFREW

Month	GMT	Beaufort force					Direction							
		≥ 8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		≥ 34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JULY	03	0	0	3.7	19.7	7.6	0.2	3.1	3.7	0.5	1.2	4.5	9.9	0.3
	09	0	0.1	8.4	18.5	4.0	0.6	2.5	4.0	0.7	1.8	5.3	9.9	2.2
	15	0	0.5	15.6	14.1	0.8	1.1	2.1	2.8	0.8	2.5	5.6	11.3	4.0
	21	0	0.1	5.0	24.1	1.8	0.8	1.4	4.6	1.1	2.0	6.0	12.5	0.8
AUGUST	03	0	0.3	3.7	17.6	9.4	0.5	3.0	3.8	1.1	1.9	4.5	6.3	0.5
	09	0	0.6	8.8	17.4	4.2	0.9	2.6	4.8	0.9	2.9	5.5	7.2	2.0
	15	0	0.9	12.3	16.7	1.1	0.7	2.5	3.5	0.6	3.6	7.7	9.0	2.3
	21	0	0.3	4.3	22.6	3.8	0.5	2.7	4.0	1.3	3.1	5.8	9.3	0.5
SEPTEMBER	03	0	0.3	5.3	17.0	7.4	0.2	2.6	4.2	1.1	2.0	5.6	6.3	0.6
	09	0	0.7	8.8	15.1	5.4	0.4	1.7	4.7	0.8	2.8	5.3	7.1	1.8
	15	0	0.9	14.3	13.5	1.3	0.8	1.9	3.2	1.6	4.3	6.3	8.2	2.4
	21	0	0.4	6.1	19.1	4.4	0.2	2.7	3.3	1.4	3.9	5.0	8.8	0.3
OCTOBER	03	0	0.7	6.6	17.7	6.0	0.3	1.7	3.7	1.1	3.3	7.6	6.7	0.6
	09	0	0.6	9.5	15.6	5.3	0.4	1.9	4.1	0.9	3.4	7.1	7.0	0.9
	15	0	1.2	11.8	16.7	1.3	0.9	1.9	3.3	1.6	4.4	7.2	8.2	2.2
	21	0	0.8	6.2	19.1	4.9	0.4	2.0	3.4	1.8	3.8	6.2	7.7	0.8
NOVEMBER	03	0	0.7	5.6	15.9	7.8	0.9	2.2	3.3	1.4	3.5	3.9	5.9	1.1
	09	0	1.0	4.8	15.5	8.7	0.3	2.6	3.2	1.3	2.9	4.7	5.3	1.0
	15	0	1.0	9.6	15.9	3.5	0.6	3.1	2.6	1.6	3.9	4.6	8.7	1.4
	21	0	0.7	6.1	17.0	6.2	0.9	2.8	3.0	1.7	3.7	4.2	6.9	0.6
DECEMBER	03	0.4	2.1	9.5	12.7	6.3	0.2	1.9	4.3	1.1	3.2	7.0	6.6	0.4
	09	0	2.3	9.9	12.8	6.0	0.7	1.7	3.2	2.3	3.5	6.4	6.4	0.8
	15	0.1	2.1	10.6	14.5	3.7	0.5	3.2	3.0	1.3	4.2	7.0	7.1	1.0
	21	0	1.9	8.3	15.2	5.6	0.4	2.7	3.7	2.0	3.1	6.6	6.3	0.6

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59

ACKLINGTON

Month	GMT	Beaufort force					Direction							
		≥8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
		knots												
		≥34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	0.5	2.4	12.2	13.9	2.0	1.5	0.5	1.2	1.8	4.8	5.0	10.6	3.6
	09	0.1	3.6	11.8	14.6	0.9	2.1	0.4	1.4	1.8	4.6	5.9	9.6	4.3
	15	0.2	3.5	14.0	12.1	1.2	2.6	0.9	1.3	1.3	6.2	5.4	8.6	3.5
	21	0.2	3.6	11.4	14.0	1.8	2.1	0.5	1.3	1.3	5.6	4.9	9.4	4.1
FEBRUARY	03	0.1	2.5	10.2	13.2	2.2	2.0	1.5	1.8	1.3	3.2	4.8	8.3	3.1
	09	0	3.0	10.3	13.7	1.2	2.6	1.0	2.1	1.3	3.7	5.3	7.4	3.6
	15	0.2	3.3	13.3	10.4	1.0	3.7	1.1	2.5	1.9	3.5	5.3	6.0	3.2
	21	0.1	2.0	10.0	13.9	2.2	1.8	1.1	1.9	1.8	4.1	4.0	7.6	3.7
MARCH	03	0	1.2	9.4	16.7	3.7	2.4	1.6	2.0	3.6	4.5	3.3	7.8	2.1
	09	0	1.8	14.0	13.5	1.7	2.3	2.7	3.0	3.6	5.0	3.8	6.3	2.6
	15	0.3	2.6	16.5	11.1	0.5	2.9	3.3	4.3	7.1	2.8	3.5	4.4	2.2
	21	0.3	1.1	10.3	16.0	3.3	2.5	1.9	2.4	4.4	4.7	3.5	6.4	1.9
APRIL	03	0	0.9	8.1	17.7	3.3	3.5	1.3	0.4	0.3	3.1	3.7	11.0	3.4
	09	0	2.3	13.9	12.5	1.3	5.3	2.2	1.9	1.8	4.0	4.3	5.9	3.3
	15	0.3	2.3	20.1	7.3	0	4.4	4.1	4.1	4.6	1.6	4.3	5.8	1.1
	21	0	1.0	8.4	16.5	4.1	3.8	1.6	0.5	1.9	3.5	5.2	7.6	1.8
MAY	03	0	0.7	7.0	19.9	3.4	6.4	2.2	1.1	2.0	2.5	2.4	8.2	2.8
	09	0	1.3	14.8	13.8	1.1	6.9	4.8	2.6	3.4	2.4	3.7	4.2	1.9
	15	0	2.1	18.3	10.3	0.3	3.9	6.5	5.8	5.7	1.5	2.4	4.4	0.5
	21	0	0.1	7.8	19.3	3.8	5.6	4.3	2.0	2.4	3.0	3.7	4.9	1.3
JUNE	03	0	0.2	4.8	21.2	3.8	4.6	1.0	0.9	1.2	2.9	4.8	8.7	2.1
	09	0	1.0	12.9	14.5	1.6	4.4	3.7	2.5	2.7	2.8	3.6	6.6	2.1
	15	0	1.7	15.7	12.4	0.2	3.3	5.6	6.0	4.5	1.5	3.8	4.8	0.3
	21	0	0.2	6.4	20.0	3.4	4.0	2.3	2.1	2.7	3.7	4.7	6.0	1.1

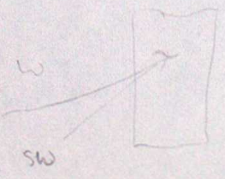

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

ACKLINGTON

Month	GMT	Beaufort force					Direction							
		≥ 8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		≥ 34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JULY	03	0	0.1	5.9	21.0	4.0	3.4	0.7	0.7	1.3	2.1	6.5	10.4	1.9
	09	0	0.3	14.1	15.3	1.3	4.6	2.5	2.0	3.4	3.1	3.9	8.1	2.1
	15	0	1.8	16.1	12.6	0.5	2.8	4.5	4.7	5.1	2.2	5.4	5.1	0.7
	21	0	0.1	6.7	21.3	2.9	3.9	1.6	1.1	2.3	4.5	5.5	7.7	1.5
AUGUST	03	0	0.6	6.1	19.4	4.9	2.9	1.2	0.7	1.4	3.6	4.4	10.0	1.9
	09	0	0.5	14.4	14.5	1.6	4.7	2.0	1.7	2.8	4.2	4.9	7.2	1.9
	15	0	1.6	16.7	12.4	0.3	3.3	3.5	3.8	6.6	2.4	5.1	5.4	0.6
	21	0	0.7	5.2	20.2	4.9	3.4	1.1	1.8	2.4	2.7	5.4	7.8	1.5
SEPTEMBER	03	0	1.2	7.1	18.3	3.4	1.3	0.8	1.0	1.4	2.7	5.2	11.9	2.3
	09	0.1	1.5	12.6	14.5	1.3	2.3	1.5	1.5	2.2	5.5	5.3	7.9	2.5
	15	0.2	2.6	15.6	11.3	0.3	2.6	2.2	2.6	5.5	2.5	5.6	7.3	1.4
	21	0.1	1.0	7.7	17.7	3.5	2.4	0.9	1.2	1.6	4.0	5.7	9.5	1.2
OCTOBER	03	0	1.1	10.7	16.4	2.8	1.3	0.5	1.2	1.9	3.9	7.3	10.1	2.0
	09	0	1.3	2.2	15.7	1.8	1.7	0.4	0.7	2.1	5.7	7.5	8.6	2.5
	15	0.2	1.8	16.2	12.4	0.4	2.1	1.5	2.6	3.6	3.8	7.6	6.6	2.8
	21	0.1	1.5	10.3	17.0	2.1	1.1	0.3	1.2	2.9	4.6	7.2	9.0	2.6
NOVEMBER	03	0.1	1.9	10.3	16.1	1.6	2.2	1.2	1.0	1.8	6.0	3.8	9.6	2.8
	09	0.2	2.0	9.9	16.1	1.8	1.2	1.4	1.2	1.3	5.3	4.5	9.8	3.5
	15	0.4	2.4	11.5	14.2	1.5	2.8	1.0	1.5	2.4	5.9	5.2	6.1	3.6
	21	0	2.2	9.2	16.5	2.1	1.6	1.1	1.3	2.1	5.7	4.8	8.0	3.3
DECEMBER	03	0.3	3.5	11.4	14.1	1.7	0.9	1.0	0.6	2.1	5.8	7.0	9.9	2.0
	09	0.2	3.2	12.7	13.8	1.1	0.9	0.7	1.1	1.7	6.6	6.9	9.4	2.6
	15	0.3	3.6	12.7	13.2	1.2	1.0	0.9	0.8	2.6	6.3	6.2	9.3	2.7
	21	0.2	2.8	12.7	13.3	2.0	1.1	0.9	0.8	2.2	5.6	7.0	9.4	2.0

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59

DISHFORTH

Month	GMT	Beaufort force					Direction							
		⩾8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		⩾34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	0.1	1.5	10.7	14.5	4.2	3.0	1.0	1.3	4.3	5.2	1.8	5.5	4.7
	09	0.1	0.9	9.2	17.8	3.0	3.1	0.7	1.9	4.4	5.1	2.7	5.7	4.4
	15	0.1	2.4	11.4	14.9	2.2	2.6	1.3	1.3	4.3	4.4	3.1	6.2	5.6
	21	0.2	1.9	9.1	16.4	3.4	2.9	0.7	1.5	3.9	5.3	2.6	6.3	4.4
FEBRUARY	03	0	1.0	7.8	16.3	3.1	4.0	0.8	1.2	3.6	4.2	2.1	3.3	5.9
	09	0	1.4	7.1	17.3	2.4	3.3	0.6	1.5	3.8	4.5	2.0	4.2	5.9
	15	0	1.7	10.8	15.0	0.7	4.4	1.4	2.6	3.2	3.7	3.5	5.0	3.7
	21	0	1.0	7.4	17.1	2.7	2.9	1.2	1.6	4.0	3.9	2.6	4.4	4.9
MARCH	03	0	0.3	6.8	18.9	5.0	3.7	1.1	2.7	5.9	3.5	1.7	2.3	5.1
	09	0	1.2	9.1	17.6	3.1	5.0	1.7	2.8	6.7	3.4	2.0	3.2	3.1
	15	0.1	1.9	15.1	13.2	0.7	3.8	1.8	5.2	5.7	4.1	2.2	4.7	2.8
	21	0	0.5	7.8	19.5	3.2	4.0	1.3	4.1	4.5	4.8	2.0	4.7	2.4
APRIL	03	0	0.3	6.6	18.0	5.1	3.7	0.7	0.6	2.4	4.4	2.7	4.2	6.2
	09	0	0.8	13.6	13.7	1.9	6.3	1.2	1.4	3.1	4.5	2.9	3.8	4.9
	15	0	1.7	16.4	11.6	0.3	5.1	2.2	2.1	3.4	3.3	2.9	8.0	2.7
	21	0	0.3	6.0	20.4	3.3	4.8	0.9	2.1	3.4	4.1	3.1	5.2	3.1
MAY	03	0.1	0.1	5.0	21.5	4.3	6.6	0.8	2.4	3.0	2.6	2.3	3.3	5.7
	09	0	1.3	12.6	15.7	1.4	8.4	2.5	1.9	3.5	3.8	2.5	3.1	3.9
	15	0.1	1.3	17.5	11.9	0.2	6.6	3.1	2.8	3.7	4.1	3.1	5.4	2.0
	21	0	0.1	7.3	21.8	1.8	7.0	1.8	2.8	3.7	3.2	3.7	4.2	2.8
JUNE	03	0	0	4.4	19.6	6.0	5.0	0.4	1.4	2.5	3.7	1.9	4.2	4.9
	09	0	0.7	9.8	17.7	1.8	7.5	1.3	2.0	2.2	4.2	2.9	4.3	3.8
	15	0	0.6	13.8	15.3	0.3	5.2	2.2	4.1	2.5	2.5	4.3	6.7	2.2
	21	0	0.1	4.3	23.8	1.8	6.3	1.0	2.7	2.2	2.7	3.3	7.2	2.8

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

DISHFORTH

Month	GMT	Beaufort force					Direction							
		⩾8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
		knots												
		⩾34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JULY	03	0	0	5.2	19.1	6.7	2.9	0.2	0.5	3.1	3.1	3.8	5.9	4.8
	09	0	0.4	12.0	16.8	1.8	5.3	1.2	1.1	2.7	4.3	4.1	6.5	4.0
	15	0	0.3	14.9	15.4	0.4	4.7	1.9	1.8	2.3	3.7	4.7	9.7	1.8
	21	0	0	4.9	23.7	2.4	2.6	0.5	2.8	2.0	3.2	5.6	8.3	3.6
AUGUST	03	0	0.1	3.4	20.7	6.8	3.0	0.6	0.9	4.5	4.4	2.9	4.3	3.6
	09	0	0.4	9.6	18.7	2.3	5.6	0.3	0.8	3.8	5.9	3.8	5.1	3.4
	15	0	0.7	14.2	15.2	0.9	4.1	1.5	2.3	3.4	4.0	4.4	8.4	2.0
	21	0	0.1	4.0	23.1	3.8	2.8	0.3	2.1	3.6	5.2	3.4	6.5	3.3
SEPTEMBER	03	0	0.2	6.7	17.5	5.6	3.0	1.1	0.3	3.9	4.3	3.6	4.2	4.0
	09	0	0.8	9.8	17.2	2.2	3.9	1.0	1.6	5.0	5.1	3.6	4.3	3.3
	15	0	1.4	14.2	13.7	0.7	3.0	1.4	2.0	3.6	5.7	3.8	6.7	3.1
	21	0	0.4	6.3	19.4	3.9	2.4	1.0	1.9	4.1	4.6	4.1	6.0	2.0
OCTOBER	03	0	0.3	7.3	17.2	6.2	2.8	0.4	1.0	3.4	5.1	5.1	3.3	3.7
	09	0	0.5	9.3	17.4	3.8	3.6	0.4	1.6	3.9	6.1	4.6	3.7	3.3
	15	0.1	1.0	15.0	13.7	1.2	3.9	0.5	1.2	4.5	4.7	4.9	7.2	2.9
	21	0	0.7	6.5	19.3	4.5	2.3	0.5	1.5	3.6	5.8	4.5	4.9	3.4
NOVEMBER	03	0	0.8	8.1	18.0	3.1	3.3	1.2	1.5	5.1	4.4	2.4	3.8	5.2
	09	0.1	0.8	8.2	18.3	2.6	3.2	0.7	1.6	5.9	4.3	2.7	4.0	5.0
	15	0.1	1.3	10.0	17.0	1.6	4.3	1.1	1.0	5.1	4.7	3.2	4.6	4.4
	21	0	1.0	6.9	19.6	2.5	3.0	0.1	1.5	5.5	5.7	2.5	3.6	5.6
DECEMBER	03	0	2.3	9.9	16.8	2.0	1.7	0.6	2.3	5.4	5.0	3.5	6.5	4.0
	09	0	1.8	10.5	17.1	1.6	2.1	0.4	1.5	6.6	5.9	3.4	5.8	3.7
	15	0.2	1.6	11.1	16.9	1.2	3.1	0.7	1.1	5.9	5.4	4.1	6.2	3.3
	21	0	2.0	9.7	17.2	2.1	1.6	0.6	1.6	5.7	5.0	5.0	5.4	4.0

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59

WADDINGTON

Month	GMT	Beaufort force					Direction							
		≥8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		≥34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	0	1.1	12.8	15.8	1.3	2.5	1.3	2.0	2.5	3.4	8.6	5.7	3.7
	09	0	1.2	13.3	16.0	0.5	1.3	1.9	1.8	2.8	3.2	9.7	5.5	4.3
	15	0.1	1.8	14.3	14.0	0.8	1.8	1.8	2.1	2.4	3.6	7.8	6.4	4.3
	21	0.2	0.9	13.2	15.8	0.9	1.8	1.6	2.2	2.5	3.7	8.7	5.8	3.8
FEBRUARY	03	0	1.2	9.5	15.6	1.9	3.0	2.6	1.1	1.9	4.1	6.6	3.7	3.3
	09	0	1.3	9.6	15.3	2.0	2.7	1.9	1.8	1.5	4.2	7.5	3.3	3.3
	15	0.1	1.8	12.4	12.6	1.3	3.7	2.7	2.1	2.4	3.7	5.4	3.9	3.0
	21	0	1.2	8.9	16.3	1.8	2.8	2.4	2.1	2.4	3.8	6.1	3.8	3.0
MARCH	03	0	0.9	10.4	18.5	1.2	2.7	3.2	3.8	3.7	4.1	6.2	2.4	3.7
	09	0	0.7	13.8	15.7	0.8	2.9	3.7	3.6	4.7	4.3	4.4	3.8	2.8
	15	0.1	2.6	16.2	11.6	0.5	3.0	4.5	4.4	4.0	4.1	4.5	3.6	2.4
	21	0	0.8	10.3	18.8	1.1	2.4	4.4	4.4	3.8	5.0	4.3	3.3	2.3
APRIL	03	0	0.3	8.4	19.8	1.5	5.1	2.1	1.7	1.7	3.9	7.0	4.0	3.0
	09	0	1.1	14.5	14.0	0.4	5.3	3.9	1.8	1.9	3.6	5.5	4.6	3.0
	15	0	1.7	17.0	10.8	0.5	3.1	5.2	3.5	1.4	3.9	5.2	6.2	2.0
	21	0	0.5	7.1	21.7	0.7	3.4	4.7	3.7	2.9	4.0	4.6	4.1	1.9
MAY	03	0	0.1	10.2	19.2	1.5	5.8	3.5	2.1	2.0	3.9	5.5	3.5	3.2
	09	0	0.7	15.9	13.8	0.6	6.8	3.9	1.9	2.6	3.7	5.1	3.8	2.6
	15	0.1	0.9	18.9	11.0	0.1	4.4	5.8	3.7	2.5	3.7	4.2	4.5	2.1
	21	0	0.2	9.2	20.6	1.0	3.7	5.9	5.1	2.4	3.6	4.4	3.9	1.0
JUNE	03	0	0.1	6.4	21.4	2.1	4.1	3.3	1.7	1.2	4.2	7.3	3.7	2.4
	09	0	0.3	13.4	15.6	0.7	4.2	3.4	2.6	1.4	4.5	5.5	5.0	2.7
	15	0	0.5	15.9	13.3	0.3	3.4	4.7	2.5	1.5	4.2	5.4	5.9	2.1
	21	0	0	6.4	23.1	0.5	3.2	3.9	4.7	1.8	5.2	5.1	3.8	1.8

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

WADDINGTON

Month	GMT	Beaufort force					Direction							
		≥8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		≥34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JULY	03	0	0.3	7.3	20.5	2.9	3.4	1.5	0.4	1.9	3.9	10.7	3.9	2.4
	09	0	0.5	14.2	15.6	0.7	2.6	2.7	1.0	1.1	3.9	7.2	7.5	4.3
	15	0	0.5	16.9	13.0	0.6	2.3	3.7	2.0	0.8	4.1	6.3	8.6	2.6
	21	0	0.1	6.9	22.5	1.5	2.1	3.2	3.1	2.6	3.2	6.8	6.1	2.4
AUGUST	03	0	0	7.4	22.2	1.4	1.9	1.7	1.6	1.4	5.8	10.4	4.2	2.6
	09	0	0.5	13.0	16.5	1.0	2.3	1.9	2.0	2.5	5.2	7.6	5.5	3.0
	15	0	0.8	16.6	13.2	0.4	1.7	2.9	2.5	2.3	5.3	7.2	6.4	2.3
	21	0	0.2	7.6	21.9	1.3	2.1	2.6	2.7	2.6	5.4	5.8	6.2	2.3
SEPTEMBER	03	0	0.6	7.9	19.8	1.7	2.7	1.5	2.0	2.4	5.2	9.0	4.3	1.2
	09	0	1.2	14.3	13.6	0.9	2.9	1.8	2.2	2.6	4.3	8.0	5.0	2.3
	15	0	2.1	17.0	10.4	0.5	1.4	2.8	2.5	1.6	5.6	6.4	6.4	2.8
	21	0	0.6	9.0	19.0	1.4	1.5	3.2	3.0	2.8	6.3	6.2	4.8	0.8
OCTOBER	03	0	0.7	9.7	18.5	2.1	1.8	1.2	1.5	2.3	5.5	9.0	4.0	3.6
	09	0	0.6	12.0	16.6	1.8	1.8	1.1	2.2	2.5	5.3	9.4	4.1	2.8
	15	0	0.9	17.0	11.8	1.3	3.4	1.1	2.6	3.6	4.7	6.8	5.5	2.0
	21	0	0.3	10.5	18.8	1.4	1.9	0.9	2.6	3.1	5.8	7.7	4.2	3.4
NOVEMBER	03	0.1	1.2	9.4	17.3	2.0	2.1	1.6	1.4	3.4	5.0	7.0	3.5	3.9
	09	0	0.6	11.8	15.1	2.5	2.6	1.3	1.4	3.2	5.0	6.5	3.7	3.8
	15	0	1.1	11.5	16.1	1.3	4.0	1.4	2.1	3.4	4.4	6.0	3.7	3.7
	21	0.1	0.7	10.6	16.4	2.2	3.4	1.1	2.1	3.3	5.8	5.5	3.4	3.2
DECEMBER	03	0	1.6	14.2	13.7	1.5	1.2	1.4	1.7	2.6	4.7	9.4	5.8	2.7
	09	0.1	1.6	12.0	16.3	1.0	0.9	1.3	1.8	3.2	5.2	8.8	5.9	2.9
	15	0	2.4	12.0	14.9	1.7	1.2	1.6	1.2	3.1	5.0	8.0	6.6	2.6
	21	0	1.3	13.3	15.1	1.3	1.4	1.4	1.7	3.0	4.7	9.3	6.0	2.2

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59

MILDENHALL

Month	GMT	Beaufort force					Direction							
		≥ 8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		≥ 34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	0	0.4	9.3	19.8	1.5	2.6	2.0	2.5	2.0	3.8	7.4	6.9	2.3
	09	0	0.5	9.5	19.1	1.9	1.5	1.4	2.8	2.0	4.7	7.0	6.9	2.8
	15	0.1	1.2	10.1	18.5	1.1	2.1	1.8	2.8	1.7	3.4	7.8	7.0	3.3
	21	0	1.1	8.4	20.4	1.1	2.2	1.4	3.0	2.1	4.6	7.2	6.3	3.1
FEBRUARY	03	0.1	0.5	6.8	18.3	2.5	2.5	2.3	1.4	1.5	4.8	6.6	4.2	2.4
	09	0	0.8	8.0	17.2	2.2	3.6	1.6	1.8	1.5	3.8	5.9	5.4	2.4
	15	0	0.7	11.1	15.1	1.3	3.3	2.9	2.4	1.2	4.0	4.9	5.2	3.0
	21	0	0.5	7.0	18.3	2.4	2.2	2.8	1.8	1.9	4.9	5.0	5.0	2.2
MARCH	03	0	0.2	5.8	22.6	2.4	2.3	2.5	4.2	4.5	5.3	4.1	3.6	2.1
	09	0	0.7	8.2	20.2	1.9	3.2	1.9	4.8	4.1	4.5	4.1	4.5	2.0
	15	0.1	0.9	11.9	17.4	0.7	3.7	3.3	4.2	4.3	4.3	3.7	4.7	2.1
	21	0	0.2	5.5	24.0	1.3	2.9	2.9	5.0	5.0	5.1	3.6	3.8	1.4
APRIL	03	0	0.4	3.7	23.6	2.3	4.0	2.7	1.9	2.7	4.3	5.4	4.2	2.5
	09	0	0.6	10.2	17.9	1.3	5.1	3.5	3.4	1.4	2.9	4.6	4.8	3.0
	15	0	0.9	13.5	14.8	0.8	4.7	4.4	3.5	1.2	3.1	3.9	5.3	3.1
	21	0	0.3	4.9	23.8	1.0	3.9	4.1	3.6	2.8	5.2	4.1	3.2	2.1
MAY	03	0	0.1	3.5	24.4	3.0	4.5	2.2	3.9	1.7	4.3	6.1	3.6	1.7
	09	0	0.8	9.0	20.3	0.9	5.8	3.6	3.5	2.1	3.5	4.8	4.5	2.3
	15	0.1	0.4	13.0	17.2	0.3	5.2	4.2	3.8	2.0	3.5	5.1	4.6	2.3
	21	0	0	4.0	25.9	1.1	4.8	4.2	4.9	3.2	4.5	4.3	3.1	0.9
JUNE	03	0	0	2.5	23.4	4.1	3.1	1.8	2.0	1.8	3.3	7.9	4.1	1.9
	09	0	0	6.7	21.1	2.2	3.6	2.3	2.1	1.6	2.8	5.7	6.2	3.5
	15	0	0	9.7	19.5	0.8	4.4	2.7	2.5	1.4	2.8	5.9	6.0	3.5
	21	0	0	2.5	25.8	1.7	3.2	2.7	4.0	2.7	4.5	4.6	5.1	1.5

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

MILDENHALL

Month	GMT	Beaufort force					Direction							
		⩾ 8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		⩾ 34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JULY	03	0	0	2.8	24.5	3.7	2.6	1.2	0.8	2.5	3.4	8.5	5.6	2.7
	09	0	0.3	7.2	22.0	1.5	3.9	1.9	1.2	1.0	3.4	5.4	8.3	4.4
	15	0	0.5	9.1	20.9	0.5	4.8	1.9	1.3	0.8	3.5	5.2	9.1	3.9
	21	0	0	2.3	26.0	2.7	3.5	2.0	2.0	2.8	3.7	5.9	6.3	2.1
AUGUST	03	0	0	2.3	25.2	3.5	1.4	0.9	1.5	2.2	4.9	8.9	5.4	2.3
	09	0	0.1	6.2	22.9	1.8	2.1	1.4	1.7	2.1	3.3	7.2	8.3	3.1
	15	0	0.1	9.1	20.6	1.2	3.8	1.3	1.2	2.1	4.2	5.5	8.7	3.0
	21	0	0	2.3	25.7	3.0	1.6	1.8	2.5	2.4	5.4	7.6	4.2	2.5
SEPTEMBER	03	0	0.2	3.6	22.7	3.5	1.5	1.9	1.6	2.3	4.5	7.3	6.3	1.1
	09	0	0.3	7.6	19.4	2.7	1.8	2.0	2.1	2.1	3.1	6.7	7.5	2.0
	15	0	0.7	9.8	18.6	0.9	2.4	3.1	2.6	2.1	3.3	6.1	7.1	2.4
	21	0	0	4.3	24.1	1.6	1.7	2.3	2.7	2.9	4.4	7.4	5.8	1.2
OCTOBER	03	0	0.1	4.8	22.1	4.0	1.4	1.2	2.5	2.1	4.4	7.5	4.5	3.4
	09	0	0.1	6.8	20.9	3.2	1.3	1.1	2.0	2.8	3.2	8.0	6.2	3.2
	15	0	0.2	8.7	20.2	1.9	2.9	1.0	2.4	3.0	2.9	6.7	6.7	3.5
	21	0	0.2	5.6	21.9	3.3	1.6	0.7	2.8	2.7	4.9	6.3	5.7	3.0
NOVEMBER	03	0.1	0.2	6.0	20.3	3.4	2.2	1.3	1.7	2.5	6.2	5.7	4.3	2.7
	09	0	0.4	6.5	20.7	2.4	2.5	1.1	1.6	3.5	5.3	5.5	5.1	3.0
	15	0	1.0	7.2	19.5	2.3	2.7	1.8	2.8	1.8	5.3	5.5	5.2	2.6
	21	0	0.5	5.9	20.5	3.1	2.0	1.5	1.8	2.8	6.4	4.6	4.8	3.0
DECEMBER	03	0	0.7	9.4	19.4	1.5	1.6	1.3	1.6	2.3	6.2	9.1	5.3	2.1
	09	0	0.7	9.0	18.8	2.5	1.4	0.7	1.5	2.8	6.4	8.3	4.7	2.7
	15	0	1.1	10.0	18.1	1.8	1.4	1.4	1.5	3.0	6.4	7.0	5.7	2.8
	21	0	0.7	9.3	19.0	2.0	1.1	1.0	2.2	2.4	5.6	8.9	6.2	1.6

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59

ELMDON

Month	GMT	Beaufort force					Direction							
		⩾ 8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
		knots												
		⩾ 34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	0	1.1	9.7	18.1	2.1	1.6	2.2	2.1	2.9	3.2	8.7	5.5	2.7
	09	0	0.4	10.1	18.3	2.2	2.4	1.3	1.6	3.0	4.0	8.8	4.8	2.9
	15	0.2	1.1	12.4	16.4	0.9	2.0	1.9	2.5	2.2	4.1	8.2	5.9	3.3
	21	0	1.2	10.0	18.1	1.7	1.5	2.3	2.1	2.4	4.1	8.4	6.1	2.4
FEBRUARY	03	0	0.5	7.6	16.3	3.8	2.6	1.9	1.2	2.2	3.5	6.9	3.0	3.1
	09	0	0.6	8.7	16.9	2.0	3.2	1.8	1.7	2.8	3.6	7.2	3.1	2.8
	15	0.1	0.9	13.0	13.8	0.4	3.3	3.0	2.3	2.3	3.2	6.7	3.5	3.5
	21	0	0.4	8.2	16.6	3.0	3.0	1.4	1.7	1.9	4.8	6.1	3.5	2.8
MARCH	03	0.1	0.5	6.7	19.7	4.0	2.1	2.7	4.4	4.2	3.8	4.7	2.9	2.2
	09	0.1	0.6	9.9	17.8	2.6	3.0	2.8	5.6	4.8	3.4	4.7	1.8	2.3
	15	0.1	0.8	14.7	15.3	0.1	2.4	4.2	5.8	3.4	4.1	4.1	4.2	2.7
	21	0	0.5	8.3	19.9	2.3	2.0	3.8	5.7	3.8	4.2	4.5	2.6	2.1
APRIL	03	0	0.6	5.9	18.3	5.2	4.4	2.1	1.1	1.5	2.9	6.4	3.8	2.6
	09	0	0.9	12.2	15.7	1.1	3.8	4.8	2.2	1.5	2.8	5.5	4.6	3.7
	15	0.1	1.2	15.1	12.9	0.7	2.5	4.9	3.5	0.7	2.9	6.3	4.5	4.0
	21	0	0.2	7.6	20.2	2.0	2.5	3.8	3.3	2.0	2.8	6.0	3.9	3.7
MAY	03	0	0.1	5.5	20.1	5.3	3.6	3.4	1.8	2.2	3.8	5.4	2.4	3.1
	09	0	0.7	14.0	15.3	1.0	3.7	5.2	3.5	2.6	3.7	5.6	2.8	2.9
	15	0	1.5	15.3	14.2	0	2.1	5.7	4.1	1.7	3.8	5.5	4.7	3.4
	21	0	0.2	7.6	20.7	2.5	2.4	4.7	4.3	2.4	3.4	5.0	2.9	3.4
JUNE	03	0	0.1	3.4	21.6	4.6	2.7	2.4	0.9	1.0	3.8	7.5	3.5	3.6
	09	0	0	11.2	17.5	1.1	3.1	3.1	3.0	1.6	3.4	6.1	5.3	3.3
	15	0	0.4	14.7	14.7	0.2	2.6	3.3	2.9	1.5	3.5	7.2	4.9	3.9
	21	0	0.1	5.0	23.1	1.8	3.2	3.1	2.9	1.3	2.2	7.2	3.5	4.8

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

ELMDON

Month	GMT	Beaufort force					Direction							
		≥8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		≥34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
	03	0	0.1	4.9	21.9	4.1	2.1	2.1	0.3	1.5	3.5	10.4	3.5	3.5
JULY	09	0	0.3	11.8	17.7	1.2	2.3	3.5	1.6	1.7	3.7	6.6	6.5	3.9
	15	0	0.5	13.6	16.5	0.4	2.0	3.3	2.2	1.2	2.6	8.4	7.8	3.1
	21	0	0	5.3	23.9	1.8	2.9	1.4	2.4	1.2	3.5	7.2	5.6	5.0
	03	0	0	4.3	21.8	4.9	1.6	1.0	1.0	2.6	5.6	8.0	4.5	1.8
AUGUST	09	0	0.2	10.5	19.2	1.1	2.2	2.4	1.5	2.7	4.7	8.2	5.1	3.1
	15	0	0.7	12.6	17.0	0.7	1.8	1.8	2.1	1.7	4.0	9.4	6.7	2.8
	21	0	0	4.9	24.1	2.0	1.8	2.0	1.5	1.9	5.4	7.3	4.9	4.2
	03	0	0.1	5.9	19.7	4.3	1.5	1.7	1.4	2.6	4.4	9.5	3.5	1.1
SEPTEMBER	09	0	0.3	10.7	17.3	1.7	1.8	2.6	2.2	2.4	5.1	7.2	5.0	2.0
	15	0	1.1	14.0	14.5	0.4	1.3	2.0	3.2	2.4	4.4	7.1	6.3	2.9
	21	0	0.2	5.2	22.8	1.8	0.8	2.0	2.9	2.3	4.9	8.3	4.3	2.7
	03	0	0.2	6.6	18.6	5.6	1.6	0.6	1.3	2.8	4.5	8.7	3.4	2.5
OCTOBER	09	0	0.6	8.0	19.0	3.4	1.9	0.9	2.4	3.0	3.5	9.5	3.5	2.9
	15	0.1	0.7	12.9	16.5	0.8	2.4	1.6	2.7	3.0	4.1	7.9	4.3	4.2
	21	0	0.4	6.7	20.1	3.8	1.6	0.8	1.8	3.4	5.0	8.4	3.3	2.9
	03	0.1	0.4	7.6	18.4	3.5	2.2	1.0	2.0	3.4	4.3	6.8	4.1	2.7
NOVEMBER	09	0	0.3	7.6	19.1	3.0	2.5	1.3	1.9	3.6	4.9	6.6	2.8	3.4
	15	0	0.6	9.5	18.6	1.3	3.3	1.7	2.4	3.0	5.1	5.8	3.5	3.9
	21	0	0.5	7.0	20.1	2.4	2.7	1.2	2.2	3.2	4.5	7.3	3.4	3.1
	03	0.2	0.8	10.3	17.0	2.7	1.6	1.1	1.5	3.0	4.9	10.0	4.5	1.7
DECEMBER	09	0	1.2	9.5	17.2	3.1	1.4	0.8	1.7	3.8	4.7	9.6	4.2	1.7
	15	0.1	2.0	10.1	17.3	1.5	1.8	1.0	2.0	3.8	5.4	8.8	4.6	2.1
	21	0.1	0.7	10.9	17.4	1.9	1.7	1.3	2.4	3.4	4.5	10.0	4.5	1.3

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59

HEATHROW

Month	GMT	Beaufort force					Direction							
		≥8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		≥34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	0	0.5	9.0	18.0	3.5	2.1	3.5	1.8	1.5	3.9	4.2	8.5	2.0
	09	0	0.3	9.9	18.2	2.6	2.9	2.7	2.3	1.9	4.1	5.1	7.0	2.4
	15	0	0.6	13.9	14.6	1.9	2.9	3.0	2.4	1.4	3.6	4.8	8.1	2.9
	21	0	1.2	8.4	18.2	3.2	2.9	2.7	2.5	1.4	4.0	5.5	6.2	2.6
FEBRUARY	03	0	0.4	6.8	17.5	3.5	3.3	2.7	2.1	1.2	3.4	4.7	5.4	1.9
	09	0	1.0	7.0	16.7	3.5	3.1	3.1	1.7	1.5	3.6	3.7	5.5	2.5
	15	0.1	0.8	12.6	13.9	0.8	3.7	3.6	1.6	1.2	3.2	4.9	6.9	2.3
	21	0	1.0	6.7	18.0	2.5	3.1	3.2	2.2	0.9	4.9	3.4	5.6	2.4
MARCH	03	0	0.4	6.5	18.9	5.2	3.0	4.1	4.6	1.9	3.8	2.3	4.2	1.9
	09	0	0.6	10.2	17.1	3.1	3.3	5.1	4.6	2.2	4.0	2.6	4.6	1.5
	15	0	1.3	14.8	14.4	0.5	3.4	3.9	4.9	2.8	4.6	3.8	5.4	1.7
	21	0	0.3	8.4	19.7	2.6	2.1	4.9	5.8	1.9	4.7	3.7	3.7	1.6
APRIL	03	0	0.2	3.9	20.9	5.0	4.0	4.6	1.0	0.9	2.8	4.8	4.6	2.3
	09	0	0.4	12.3	15.0	2.3	4.1	6.0	2.2	0.7	2.6	4.1	5.3	2.7
	15	0	0.7	14.9	13.6	0.8	4.5	4.4	3.4	0.5	3.1	4.1	6.3	2.9
	21	0	0.3	6.3	21.3	2.1	2.8	4.5	4.6	0.9	3.2	5.0	4.7	2.2
MAY	03	0	0	4.0	20.5	6.5	4.4	4.6	2.6	0.7	2.6	3.5	4.6	1.5
	09	0	0.6	9.6	19.9	0.9	4.2	5.6	4.0	1.3	4.0	4.2	4.5	2.3
	15	0	0.7	16.2	13.8	0.3	4.2	4.2	4.3	1.4	3.9	5.5	4.9	2.3
	21	0	0	4.6	24.4	2.0	3.6	5.0	5.0	1.3	3.5	4.2	4.8	1.6
JUNE	03	0	0	2.8	21.6	5.6	3.3	3.0	1.3	0.6	3.3	5.2	6.2	1.5
	09	0	0.1	9.0	19.5	1.4	3.7	3.0	3.4	0.5	3.7	4.1	7.6	2.6
	15	0	0.4	14.4	15.0	0.2	4.0	2.3	2.7	0.8	3.8	6.1	7.0	3.4
	21	0	0	4.8	23.4	1.8	2.9	2.2	3.5	1.4	3.6	6.4	5.2	3.0

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

HEATHROW

Month	GMT	Beaufort force ⩾8	6-7	4-5	1-3	Calm	Direction N	NE	E	SE	S	SW	W	NW
		knots ⩾34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JULY	03	0	0	3.9	22.5	4.6	3.3	2.0	1.2	0.7	3.0	6.3	7.8	2.1
	09	0	0.4	10.0	18.9	1.7	3.2	3.5	1.5	0.7	2.9	6.1	8.3	3.1
	15	0	0.9	14.0	15.7	0.4	3.2	2.4	1.9	0.1	4.3	6.4	9.2	3.1
	21	0	0	5.6	23.2	2.2	1.8	3.4	2.0	0.6	4.7	5.6	8.2	2.5
AUGUST	03	0	0.1	4.1	19.6	7.2	2.2	1.6	1.4	1.4	3.3	5.7	6.2	2.0
	09	0	0.2	9.6	18.8	2.4	2.5	1.9	2.1	1.3	4.4	6.6	7.0	2.8
	15	0	0.5	15.0	15.0	0.5	2.0	1.3	2.1	0.7	4.5	7.7	9.2	3.0
	21	0	0	4.9	22.9	3.2	1.2	1.2	2.6	1.1	5.1	7.6	6.7	2.3
SEPTEMBER	03	0	0.1	4.2	20.1	5.6	2.3	2.9	1.7	0.6	3.7	4.3	7.8	1.1
	09	0	0.6	9.2	17.6	2.6	2.2	2.6	3.3	1.3	3.1	5.3	7.5	2.1
	15	0	0.7	15.4	13.5	0.4	1.5	2.0	3.3	1.5	4.3	5.9	7.1	4.0
	21	0	0.3	5.7	21.0	3.0	1.3	2.9	3.5	1.0	4.4	6.2	6.6	1.1
OCTOBER	03	0	0.2	5.2	18.2	7.4	3.4	1.5	2.0	1.2	2.9	5.0	4.8	2.8
	09	0	0.2	7.3	18.6	4.9	2.7	1.8	2.7	1.3	3.4	5.1	6.8	2.3
	15	0	0.1	12.2	17.3	1.4	3.3	2.3	2.9	1.4	3.9	5.8	7.0	3.0
	21	0	0.2	5.7	20.4	4.7	2.8	1.6	2.6	2.1	4.0	4.8	5.3	3.1
NOVEMBER	03	0.1	0.4	6.3	17.6	5.6	3.3	1.4	3.1	1.9	4.8	2.7	4.8	2.4
	09	0	0.3	7.6	18.0	4.1	3.4	2.2	2.5	1.9	5.0	3.3	4.7	2.9
	15	0	0.6	9.4	18.2	1.8	4.3	2.0	2.1	2.3	4.4	4.0	6.3	2.8
	21	0	0.8	6.9	18.3	4.0	3.2	2.3	2.5	2.0	5.6	3.3	4.9	2.2
DECEMBER	03	0	0.6	8.1	17.3	5.0	1.8	2.0	2.4	1.9	3.8	5.7	6.2	2.2
	09	0	0.6	8.5	16.5	5.4	2.2	1.4	2.4	1.4	5.2	5.5	6.3	1.2
	15	0	1.5	10.6	16.2	2.7	2.1	1.9	1.8	1.5	5.6	5.5	7.5	2.4
	21	0	0.5	10.3	15.3	4.9	1.7	1.7	2.7	1.7	4.2	6.9	6.2	1.0

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59

BOSCOMBE DOWN

Month	GMT	Beaufort force					Direction							
		⩾8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		⩾ 34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	0	1.0	10.9	15.4	3.7	3.3	1.8	3.0	1.7	3.2	4.5	5.7	4.1
	09	0	0.8	10.7	16.5	3.0	2.9	2.3	3.6	1.6	3.6	4.4	5.7	3.9
	15	0	2.0	12.6	14.4	2.0	3.2	2.7	2.9	2.1	3.4	4.1	6.2	4.4
	21	0	1.2	10.3	15.5	4.0	2.6	2.6	3.1	1.8	3.5	4.0	5.7	3.7
FEBRUARY	03	0	0.9	7.7	16.1	3.5	3.5	2.2	3.1	1.1	4.3	4.0	3.6	2.9
	09	0.1	1.0	9.6	15.0	2.5	2.8	2.6	3.4	2.1	4.2	3.1	4.5	3.0
	15	0.1	1.7	13.3	12.2	0.9	4.3	2.9	2.9	1.8	3.4	3.3	5.5	3.2
	21	0.1	1.0	7.4	16.9	2.8	3.0	2.8	2.9	1.0	4.5	4.0	4.2	3.0
MARCH	03	0.1	0.6	9.7	15.9	4.7	2.4	2.9	5.9	2.8	4.9	2.4	3.1	1.9
	09	0	1.7	12.8	14.3	2.2	2.8	3.6	6.1	3.5	4.4	2.9	4.0	1.5
	15	0	1.9	14.9	13.8	0.4	2.5	3.7	4.5	4.3	5.0	3.6	4.3	2.7
	21	0	1.0	9.3	17.6	3.1	1.9	2.7	6.1	3.8	4.6	3.2	3.3	2.3
APRIL	03	0	0.4	6.9	18.1	4.6	3.0	3.9	2.9	1.1	2.9	3.6	4.4	3.6
	09	0	0.9	13.3	14.9	0.9	4.5	4.4	4.0	1.5	2.2	3.7	4.3	4.5
	15	0	1.0	15.9	12.8	0.3	5.3	3.4	4.7	1.3	2.8	3.0	5.6	3.6
	21	0	0.4	6.7	19.9	3.0	3.2	3.6	3.2	1.0	3.7	4.1	4.5	3.7
MAY	03	0	0.1	6.7	20.2	4.0	3.9	3.7	3.8	1.7	2.6	4.1	3.3	3.9
	09	0	1.1	13.9	15.3	0.7	4.6	4.8	3.9	1.8	3.2	4.9	3.3	3.8
	15	0	1.9	15.3	13.4	0.4	3.9	4.9	3.0	2.3	4.0	5.1	4.4	3.0
	21	0	0.3	6.6	21.4	2.7	3.4	4.0	2.9	2.5	4.7	3.0	3.7	4.1
JUNE	03	0	0.1	4.1	18.5	7.3	2.8	1.9	2.4	0.3	3.4	3.7	4.9	3.3
	09	0	0.2	10.5	18.3	1.0	4.1	2.6	3.5	1.0	2.7	5.0	5.5	4.6
	15	0	0.6	12.9	16.2	0.3	3.4	2.3	2.8	2.1	3.0	5.0	6.1	5.0
	21	0	0	4.6	22.1	3.3	2.2	2.7	1.8	1.2	4.0	4.9	5.6	4.3

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

BOSCOMBE DOWN

Month	GMT	Beaufort force					Direction							
		≥8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		≥34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JULY	03	0	0.2	3.6	20.4	6.8	2.5	1.8	2.3	0.3	2.3	4.8	6.5	3.7
	09	0	0.4	10.6	18.8	1.2	2.4	4.0	2.0	1.2	3.1	4.4	6.6	6.1
	15	0.1	0.7	13.5	16.0	0.7	1.9	2.1	2.3	1.3	3.2	5.4	7.1	7.0
	21	0	0	5.2	22.9	2.9	1.4	2.2	1.7	1.1	4.6	3.1	8.2	5.8
AUGUST	03	0	0	4.1	20.2	6.7	1.3	1.4	2.6	1.9	4.7	3.6	5.3	3.5
	09	0	0.2	10.3	19.3	1.2	2.8	2.5	2.2	2.3	4.5	5.2	6.5	3.8
	15	0	0.6	14.3	15.2	0.9	2.3	1.2	2.5	2.1	5.0	5.9	6.6	4.5
	21	0	0	4.5	23.2	3.3	1.4	1.3	1.9	2.5	5.3	4.3	7.3	3.7
SEPTEMBER	03	0	0.4	4.7	19.6	5.3	1.2	1.9	3.9	1.4	3.5	4.7	5.0	3.1
	09	0	0.3	10.3	18.3	1.1	2.6	1.9	4.2	2.1	4.3	4.4	5.2	4.2
	15	0	0.8	13.7	15.1	0.4	1.7	1.9	3.3	2.1	4.3	4.7	7.0	4.6
	21	0	0.6	3.6	22.0	3.8	1.3	2.1	3.1	1.5	3.2	6.0	5.3	3.7
OCTOBER	03	0	0.8	3.9	20.8	5.5	2.3	1.2	4.0	1.7	2.6	5.2	4.6	3.9
	09	0	0.3	6.2	22.2	2.3	2.8	1.7	4.4	2.2	3.1	4.8	5.0	4.7
	15	0	0.6	10.5	19.7	0.2	3.7	2.0	2.8	2.7	2.8	6.2	5.6	5.0
	21	0	0.3	4.7	21.4	4.6	2.4	1.8	4.1	1.6	3.3	5.7	4.2	3.3
NOVEMBER	03	0	0.9	7.0	18.1	4.0	3.6	1.9	3.5	1.5	4.1	3.7	4.0	3.7
	09	0	0.2	8.1	18.3	3.4	3.4	1.7	3.9	1.8	3.6	4.4	4.0	3.8
	15	0	1.4	8.7	18.6	1.3	4.7	2.4	2.9	1.7	4.2	4.0	4.9	3.9
	21	0	1.0	6.7	18.5	3.8	3.7	2.6	2.6	1.9	5.0	3.7	3.6	3.1
DECEMBER	03	0	0.9	9.7	17.0	3.3	2.2	1.3	2.8	2.0	4.8	4.7	5.8	4.1
	09	0	1.5	8.3	18.2	3.0	2.1	1.5	2.8	2.8	5.3	4.6	5.3	3.6
	15	0	1.9	10.6	17.0	1.5	2.5	1.2	2.4	3.1	4.4	4.7	6.9	4.3
	21	0	1.3	10.3	16.2	3.2	2.3	1.3	2.1	2.5	4.6	5.3	5.9	3.8

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59

SILLOTH

Month	GMT	Beaufort force					Direction							
		≥8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
		knots												
		≥34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	0.2	2.0	11.3	13.1	4.4	2.5	2.6	2.6	1.4	4.3	7.4	4.3	1.5
	09	0.1	1.3	11.3	14.8	3.5	2.8	2.9	4.1	1.1	3.7	7.5	3.6	1.8
	15	0.3	2.0	12.4	13.1	3.2	2.0	3.2	3.0	0.9	4.2	7.5	5.2	1.8
	21	0	2.5	9.1	15.6	3.8	2.0	3.0	2.8	1.8	3.7	8.4	3.8	1.7
FEBRUARY	03	0.1	1.1	9.4	14.7	2.9	3.3	3.4	4.2	1.0	2.6	6.2	2.6	2.0
	09	0	1.4	8.9	14.1	3.8	3.3	4.4	2.9	0.8	2.8	6.4	2.4	1.4
	15	0	2.0	10.9	13.0	2.3	3.1	3.6	3.4	0.8	2.5	7.5	3.2	1.8
	21	0.3	1.4	8.2	15.3	3.0	2.9	3.8	3.6	0.7	3.9	5.5	2.6	2.2
MARCH	03	0	1.1	9.4	15.5	5.0	1.9	4.7	7.0	1.3	4.0	3.9	1.9	1.3
	09	0	1.5	11.9	14.1	3.5	1.8	5.7	7.8	1.3	2.4	5.2	2.0	1.3
	15	0.1	1.6	16.1	11.5	1.7	2.2	3.1	5.5	2.1	2.8	8.5	3.4	1.7
	21	0	1.4	10.2	16.0	3.4	1.9	4.4	6.6	1.6	4.3	5.6	1.7	1.5
APRIL	03	0	0.7	9.3	15.8	4.2	2.8	4.8	3.2	0.5	3.7	5.7	3.2	1.9
	09	0	1.2	12.8	13.5	2.5	2.2	5.5	3.4	0.3	2.9	7.2	3.5	2.5
	15	0.1	1.7	16.7	11.3	0.2	2.1	3.3	3.4	0.3	1.4	12.9	4.8	1.6
	21	0	1.1	9.6	16.9	2.4	1.8	4.3	3.4	0.6	5.0	6.3	3.7	2.5
MAY	03	0	0.7	10.3	17.3	2.7	1.9	7.5	6.6	0.5	3.0	4.0	2.8	2.0
	09	0	1.8	12.5	15.0	1.7	2.3	6.8	6.2	1.0	2.1	5.6	3.1	2.2
	15	0	1.9	16.9	11.2	1.0	1.5	3.8	4.7	0.8	1.4	9.9	5.5	2.4
	21	0.1	0.8	12.3	15.4	2.4	1.1	4.8	6.9	0.9	2.9	5.7	3.4	2.9
JUNE	03	0	1.0	10.4	15.6	3.0	1.8	6.5	3.9	0.6	3.4	4.9	4.2	1.7
	09	0	1.1	12.3	15.2	1.4	1.9	5.5	3.9	0.3	2.3	7.9	4.7	2.1
	15	0	1.5	17.1	11.0	0.4	1.9	2.4	3.2	0.2	1.7	13.1	5.5	1.6
	21	0	0.5	12.3	15.1	2.1	1.0	3.7	4.1	0.7	5.4	6.4	4.1	2.5

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

SILLOTH

Month	GMT	Beaufort force					Direction							
		≥ 8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		≥ 34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JULY	03	0	0.6	8.8	18.1	3.5	1.3	3.8	3.1	0.8	4.3	6.3	5.9	2.0
	09	0	0.5	13.0	15.3	2.2	1.5	3.8	2.6	0.3	3.1	8.7	6.7	2.1
	15	0	1.7	18.3	10.8	0.2	0.8	1.6	2.6	0.5	1.6	15.1	7.6	1.0
	21	0	0.2	12.5	17.1	1.2	0.7	2.1	3.7	0.7	4.2	9.5	6.0	2.9
AUGUST	03	0	0.6	7.5	19.3	3.6	1.6	4.2	3.5	0.8	5.2	4.3	5.4	2.4
	09	0	1.1	10.6	17.5	1.8	2.5	4.6	3.7	0.7	2.7	9.4	4.3	1.3
	15	0	1.6	15.6	13.7	0.1	1.5	2.3	2.8	0.7	2.4	13.8	5.0	2.4
	21	0	0.9	7.8	20.3	2.0	1.0	3.3	3.6	1.1	5.5	6.5	5.6	2.4
SEPTEMBER	03	0.1	1.1	11.4	14.3	3.1	0.8	4.2	4.5	1.0	2.9	5.3	6.3	1.9
	09	0.1	1.1	12.6	13.9	2.3	1.5	4.5	4.0	1.2	3.0	6.8	5.0	1.7
	15	0.3	1.7	15.9	11.9	0.2	2.2	1.5	2.4	1.2	3.0	10.6	5.9	3.0
	21	0	1.6	9.7	16.0	2.7	1.6	3.1	3.0	1.3	4.6	6.0	6.1	1.6
OCTOBER	03	0	1.6	11.1	14.0	4.3	1.7	2.5	3.6	1.4	2.9	7.1	5.6	1.9
	09	0	1.3	12.6	14.4	2.7	1.9	3.2	4.0	1.0	3.5	7.8	5.8	1.1
	15	0	1.6	13.7	14.4	1.3	1.9	1.5	3.0	1.4	3.8	10.8	5.0	2.3
	21	0	1.2	11.3	15.1	3.4	1.9	2.3	3.8	1.8	3.6	7.7	5.0	1.5
NOVEMBER	03	0	1.2	8.1	16.5	4.2	2.5	3.3	3.4	1.4	4.5	5.0	4.2	1.5
	09	0	1.4	8.6	14.7	5.3	2.0	3.3	3.4	2.1	4.0	4.3	4.2	1.4
	15	0.1	1.3	10.4	15.0	3.2	2.5	2.1	2.8	2.2	3.8	6.7	4.4	2.3
	21	0.1	1.1	8.7	16.4	3.7	2.5	3.1	2.8	2.0	4.8	4.9	4.2	2.0
DECEMBER	03	0.1	3.0	11.1	13.5	3.3	1.7	2.7	3.5	1.7	4.0	8.1	4.7	1.3
	09	0.1	1.8	12.8	13.3	3.0	2.1	3.5	2.9	1.4	4.5	8.9	3.6	1.1
	15	0.1	2.3	12.6	13.7	2.3	1.7	3.2	4.3	1.4	4.3	8.9	3.7	1.2
	21	0	2.8	11.3	14.0	2.9	2.0	2.9	3.3	1.9	4.6	8.7	3.6	1.1

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59

RINGWAY

Month	GMT	Beaufort force					Direction							
		⩾8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
		knots												
		⩾34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	0.1	1.7	11.0	15.8	2.4	1.4	1.6	2.8	2.2	11.0	2.2	4.3	3.1
	09	0.1	1.6	11.4	14.8	3.2	1.5	1.2	2.5	2.5	10.9	2.7	4.9	1.6
	15	0.2	2.3	12.6	13.8	2.1	1.7	1.4	2.1	2.7	9.2	3.1	5.0	3.7
	21	0.2	1.6	11.3	15.8	2.1	1.6	1.5	2.5	2.5	9.9	3.2	4.5	3.2
FEBRUARY	03	0	0.9	8.2	16.8	2.3	2.5	2.3	2.1	2.3	8.5	3.2	2.2	2.8
	09	0.1	0.5	8.7	15.2	3.7	2.0	1.8	2.3	2.5	8.3	3.0	2.5	2.1
	15	0	1.3	13.4	12.3	1.2	2.5	2.4	2.6	2.0	6.3	3.5	4.2	3.5
	21	0	0.9	8.6	16.6	1.9	2.6	2.1	2.5	3.1	8.7	1.6	3.3	2.4
MARCH	03	0	0.7	8.9	17.4	4.0	1.9	2.9	4.7	4.7	7.4	1.8	1.6	2.0
	09	0	0.6	11.6	14.7	4.1	1.2	2.5	5.2	4.2	7.3	2.0	2.4	2.1
	15	0	2.4	15.9	12.0	0.7	1.8	2.6	4.9	4.7	5.7	2.6	4.1	3.9
	21	0	0.9	11.4	16.4	2.3	1.2	2.8	6.5	4.8	6.4	2.3	2.1	2.6
APRIL	03	0	0.5	7.0	19.6	2.9	2.6	2.9	1.7	2.2	7.9	2.8	4.7	2.3
	09	0	0.6	12.6	14.0	2.8	2.4	2.7	2.3	1.1	6.5	3.4	4.4	4.4
	15	0	1.5	15.2	12.9	0.4	2.2	2.5	3.5	1.2	4.6	3.4	7.0	5.2
	21	0	0.5	5.9	21.6	2.0	2.0	4.4	3.2	2.3	4.1	4.0	3.7	4.3
MAY	03	0	0.2	7.6	20.3	2.9	1.7	4.6	3.8	3.4	6.7	2.6	3.1	2.2
	09	0	0.8	13.8	14.7	1.7	2.1	4.6	3.4	1.9	5.8	3.2	3.7	4.6
	15	0	1.3	15.3	13.8	0.6	1.7	4.4	2.8	2.2	5.3	2.7	5.4	5.9
	21	0	0.4	6.6	22.4	1.6	0.9	4.9	4.5	3.3	3.4	3.5	4.7	4.2
JUNE	03	0	0	5.4	20.4	4.2	0.9	2.7	2.7	2.2	8.6	3.1	3.8	1.8
	09	0	0.2	10.1	17.9	1.8	1.6	1.8	2.6	1.4	6.1	4.0	7.6	3.1
	15	0	0.7	14.8	14.4	0.1	1.1	1.5	3.8	1.7	3.6	4.4	8.3	5.5
	21	0	0.1	6.2	21.8	1.9	1.5	2.4	4.1	1.6	3.2	3.8	6.0	5.5

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

RINGWAY

Month	GMT	Beaufort force					Direction							
		≥8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		≥34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JULY	03	0	0.1	5.8	20.4	4.7	1.1	1.5	1.6	2.1	10.8	3.5	3.7	2.0
	09	0	0.2	11.7	16.5	2.6	1.0	1.8	1.3	1.4	6.9	4.7	7.9	3.4
	15	0	0.7	16.0	13.7	0.6	1.0	1.7	2.1	1.2	3.2	4.7	10.5	6.0
	21	0	0.2	6.8	21.8	2.2	1.1	1.9	1.9	1.7	5.1	4.9	6.0	6.2
AUGUST	03	0	0.1	6.2	21.2	3.5	1.2	1.8	2.1	2.4	12.6	2.6	2.7	2.1
	09	0	0.5	12.3	17.4	0.8	0.8	1.7	3.0	2.5	8.6	5.0	5.6	3.0
	15	0	1.5	14.7	14.0	0.8	1.0	1.7	2.0	1.6	6.3	3.8	8.1	5.7
	21	0	0	6.3	21.9	2.8	1.8	2.0	2.5	1.7	6.9	5.4	4.7	3.2
SEPTEMBER	03	0	0.6	7.5	20.2	1.7	0.9	1.9	3.2	3.5	8.9	4.6	3.6	1.7
	09	0	0.9	12.9	14.4	1.8	0.7	1.7	2.7	3.1	7.9	4.7	4.5	2.9
	15	0.1	2.3	15.4	12.2	0	1.1	1.0	2.6	2.9	6.2	5.1	6.6	4.5
	21	0	0.7	8.6	18.6	2.1	1.3	1.3	3.7	2.7	6.9	5.9	4.0	2.1
OCTOBER	03	0	0.7	9.5	18.3	2.5	1.1	1.2	2.8	2.8	11.5	3.4	2.7	3.0
	09	0	0.9	11.0	16.7	2.4	1.3	0.6	2.9	2.2	11.1	5.3	2.7	2.5
	15	0	1.2	14.6	14.4	0.8	1.3	1.2	1.9	2.2	8.2	4.2	6.5	4.7
	21	0	1.1	9.2	18.7	2.0	1.3	0.9	2.6	3.6	10.4	4.7	2.8	2.7
NOVEMBER	03	0.1	1.2	9.5	15.9	3.3	1.7	1.3	2.6	2.5	10.9	3.3	2.2	2.2
	09	0.1	0.8	9.3	16.9	2.9	1.7	1.1	2.7	2.5	10.7	3.3	2.5	2.6
	15	0	1.6	11.6	15.2	1.6	1.9	1.7	2.3	2.7	8.3	3.8	4.0	3.7
	21	0.2	1.4	9.4	16.7	2.3	2.0	1.3	2.6	2.7	10.8	3.5	2.3	2.5
DECEMBER	03	0.3	1.9	12.2	14.0	2.6	0.9	1.2	1.6	3.1	11.7	3.4	4.6	1.9
	09	0.1	2.2	11.5	15.4	1.8	0.8	1.6	2.2	2.9	12.2	3.6	3.8	2.1
	15	0.3	2.2	12.3	15.5	0.7	0.7	1.8	2.2	3.4	10.5	4.4	4.3	3.0
	21	0.1	1.6	12.7	15.1	1.5	0.9	2.1	1.5	4.0	11.0	4.1	3.7	2.2

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59

VALLEY

Month	GMT	Beaufort force					Direction							
		≥ 8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		≥ 34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	0.5	5.9	11.8	10.3	2.5	2.6	1.8	2.7	1.7	6.2	4.7	5.5	3.3
	09	0.4	5.2	12.9	10.2	2.3	2.8	1.2	3.7	1.3	6.8	4.9	4.5	3.5
	15	1.0	4.0	15.4	8.6	2.0	2.8	2.1	2.2	1.0	8.1	4.9	3.8	4.1
	21	0.7	5.3	12.2	10.7	2.1	3.2	1.0	3.2	2.0	7.3	3.8	4.7	3.7
FEBRUARY	03	0.4	4.3	9.1	11.7	2.7	3.7	2.2	3.7	0.9	3.9	5.1	3.7	2.3
	09	0.3	3.9	10.6	10.0	3.4	3.6	2.8	2.5	0.6	5.4	4.5	3.1	2.3
	15	0.2	4.3	12.8	10.0	0.9	4.6	2.8	1.8	0.7	5.7	5.5	3.8	2.4
	21	0.3	3.2	11.7	10.2	2.8	3.2	2.0	3.7	1.3	5.2	4.3	3.6	2.1
MARCH	03	0	2.7	9.2	15.0	4.1	2.8	3.8	4.8	1.7	7.0	3.1	2.1	1.6
	09	0	2.5	11.9	13.1	3.5	2.8	2.7	5.6	1.7	6.6	3.3	2.6	2.2
	15	0.3	3.7	13.3	12.8	0.9	3.7	2.7	3.4	1.4	7.5	6.5	2.9	2.0
	21	0.2	2.6	10.1	13.6	4.5	2.5	3.4	5.3	1.8	6.6	4.0	2.3	0.6
APRIL	03	0.1	2.4	8.9	13.9	4.7	4.0	3.2	2.4	0.8	5.1	3.2	3.3	3.3
	09	0.4	2.1	14.6	10.8	2.1	3.5	3.8	2.0	0.3	6.3	4.3	4.4	3.3
	15	0.1	3.3	14.2	12.0	0.4	5.5	3.0	1.1	0.2	5.0	8.1	3.1	3.6
	21	0.1	2.9	9.5	13.5	4.0	4.5	3.1	2.3	0.9	5.5	4.7	3.3	1.7
MAY	03	0.1	1.8	9.4	14.9	4.8	3.6	4.9	3.7	0.9	5.1	3.3	2.5	2.2
	09	0	2.1	13.9	13.2	1.8	3.6	4.8	2.6	1.7	5.5	5.3	2.3	3.4
	15	0	2.8	15.1	12.7	0.4	4.4	4.7	1.5	0.5	5.3	6.8	2.9	4.5
	21	0	1.9	9.8	16.5	2.8	4.4	5.4	4.1	1.1	4.8	3.9	2.4	2.1
JUNE	03	0.1	1.2	9.7	14.9	4.1	2.9	3.1	2.4	0.6	6.0	3.5	4.4	3.0
	09	0	1.9	13.1	14.3	0.7	3.3	3.2	1.1	1.0	6.4	6.2	4.1	4.0
	15	0	2.6	13.8	13.3	0.3	4.1	2.5	1.0	0.2	5.2	10.0	2.8	3.9
	21	0	1.7	8.9	16.3	3.1	4.1	3.5	1.7	0.5	7.9	4.7	2.3	2.2

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

VALLEY

Month	GMT	Beaufort force					Direction							
		⩾8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		⩾ 34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JULY	03	0	1.1	11.8	13.9	4.2	2.7	2.5	1.1	1.4	5.7	4.9	5.2	3.3
	09	0.1	2.4	14.2	13.2	1.1	3.2	2.4	1.3	0.5	5.7	7.6	5.9	3.3
	15	0	2.9	15.7	12.2	0.2	3.9	1.6	0.9	0.4	5.2	11.5	3.3	4.0
	21	0	2.0	11.4	15.0	2.6	3.4	3.3	1.1	0.5	6.4	8.2	4.2	1.3
AUGUST	03	0.1	1.9	11.2	13.4	4.4	3.2	1.4	2.0	0.6	6.1	6.2	4.5	2.6
	09	0.2	2.3	13.7	13.6	1.2	3.4	2.0	2.0	0.3	6.7	6.3	5.0	4.1
	15	0.2	2.6	14.6	12.9	0.7	3.8	1.2	0.6	0.3	5.8	10.6	4.7	3.3
	21	0	2.8	12.0	13.5	2.7	3.3	1.5	1.7	0.4	6.1	9.0	4.3	2.0
SEPTEMBER	03	0.4	4.5	9.8	12.2	3.1	1.0	3.1	2.9	1.6	4.4	5.1	5.0	3.8
	09	0.6	4.9	12.8	9.1	2.6	2.0	1.1	2.8	1.6	6.1	5.1	4.9	3.8
	15	0.5	4.8	13.9	10.2	0.6	2.6	1.6	1.5	0.5	7.0	7.8	5.3	3.1
	21	0.4	4.2	10.4	12.5	2.5	1.8	2.4	3.4	1.2	5.5	5.1	5.6	2.5
OCTOBER	03	0.4	4.4	11.4	10.9	3.9	2.1	1.2	2.9	1.7	5.7	5.7	5.0	2.8
	09	0.2	4.6	11.7	11.7	2.8	2.7	0.9	2.8	2.0	5.9	5.9	4.2	3.8
	15	0.2	5.3	13.8	10.4	1.3	3.4	1.4	1.0	1.0	7.3	7.2	4.1	4.3
	21	0.7	4.2	14.4	12.1	2.6	2.4	2.3	2.6	1.8	5.8	4.7	5.2	3.6
NOVEMBER	03	0.5	4.5	10.8	11.3	2.9	3.3	2.3	2.9	1.5	5.8	4.1	4.3	2.9
	09	0.4	4.4	10.7	11.4	3.1	3.1	1.9	3.6	2.3	5.0	4.6	3.6	2.8
	15	0.6	4.2	12.7	10.8	1.7	3.0	2.9	2.4	1.9	5.8	4.5	4.9	2.9
	21	0.5	3.9	12.1	10.3	3.2	2.4	2.8	3.6	1.2	4.9	4.6	4.2	3.1
DECEMBER	03	1.3	5.6	14.1	8.8	1.2	1.6	2.7	2.7	1.7	5.3	7.3	6.7	1.8
	09	1.0	6.4	12.2	10.0	1.4	2.3	1.7	3.0	1.3	7.6	5.7	5.8	2.2
	15	0.7	7.1	13.1	8.5	1.6	1.8	1.7	2.2	1.3	7.7	5.7	6.3	2.7
	21	1.2	6.1	13.4	8.8	1.5	2.0	2.2	2.9	1.7	6.8	5.2	6.1	2.6

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59

ABERPORTH

Month	GMT	Beaufort force					Direction							
		≥8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
		knots												
		≥34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	0	2.8	11.1	7.0	0.8	1.9	1.6	0.9	1.8	6.5	2.7	3.5	2.0
	09	0.2	2.7	14.6	12.0	1.5	2.2	2.5	1.2	2.9	9.4	4.4	4.8	2.1
	15	0.5	3.5	15.3	10.7	1.0	2.8	2.4	1.4	3.5	7.0	4.2	5.5	3.2
	21	0.3	3.5	15.6	9.7	1.9	2.4	1.7	1.7	2.4	9.2	3.8	4.7	3.2
FEBRUARY	03	0.1	1.6	8.4	7.9	1.7	1.3	2.0	1.8	2.0	5.3	2.6	2.0	1.0
	09	0	1.8	13.3	11.3	1.8	2.2	2.5	2.2	3.2	7.0	3.4	3.6	2.3
	15	0	1.9	15.6	9.1	1.6	3.4	3.4	1.5	2.5	5.2	3.5	4.7	2.4
	21	0	1.5	13.4	10.6	2.7	2.6	2.3	2.0	2.2	7.6	3.8	3.6	1.4
MARCH	03	0	1.0	9.5	9.4	1.8	1.4	1.3	2.3	4.3	5.9	2.1	1.6	1.0
	09	0	1.4	14.8	12.3	2.5	1.4	3.2	2.6	5.3	8.4	3.2	3.2	1.2
	15	0.1	2.8	15.4	11.5	1.2	3.5	4.2	2.3	5.0	5.6	2.9	4.4	1.9
	21	0.1	1.1	13.6	12.7	3.5	1.6	3.1	2.9	4.7	7.4	4.5	2.3	1.0
APRIL	03	0	0.7	8.6	8.2	3.5	2.0	2.1	1.6	0.9	5.2	2.1	2.6	1.0
	09	0	1.2	13.4	13.2	2.2	3.6	4.4	1.8	1.8	5.0	3.3	4.9	3.0
	15	0.1	1.8	16.0	11.5	0.6	5.7	4.0	0.7	1.1	3.5	3.1	7.2	4.1
	21	0	0.9	10.1	13.3	5.7	3.5	2.6	1.1	1.3	4.7	4.7	4.0	2.4
MAY	03	0	1.0	8.4	9.4	2.9	1.6	1.1	0.8	2.2	6.0	2.7	1.8	2.6
	09	0	1.4	13.1	15.2	1.3	3.3	5.3	1.6	2.9	6.3	2.0	5.6	2.7
	15	0.1	1.9	13.6	14.8	0.6	5.4	4.3	1.4	1.9	4.9	2.6	5.9	4.0
	21	0	0.8	9.4	15.2	5.6	1.9	2.6	2.0	2.2	6.0	4.2	3.8	2.7
JUNE	03	0	0.4	6.8	10.6	3.2	1.4	0.4	0.7	1.4	5.6	2.7	3.2	2.4
	09	0	0.7	12.1	15.4	1.8	2.2	2.4	1.2	2.2	5.6	2.1	6.6	4.9
	15	0	0.9	13.5	14.6	1.0	4.4	2.3	0.8	1.4	3.4	3.7	8.0	5.0
	21	0	0.1	9.4	14.4	6.1	1.4	1.0	0.6	1.2	5.5	5.4	6.3	2.5

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

ABERPORTH

Month	GMT	Beaufort force					Direction							
		≥8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		≥34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JULY	03	0.1	1.0	7.0	10.5	3.1	1.1	0.4	0.5	0.8	5.4	3.8	5.0	1.6
	09	0	1.4	13.7	13.3	2.6	2.4	2.2	0.9	1.5	4.4	4.1	10.0	2.9
	15	0	2.1	14.8	13.5	0.6	3.4	2.6	0.8	0.5	3.5	3.9	10.3	5.4
	21	0	0.8	10.9	14.3	5.0	1.7	0.7	0.7	0.6	4.7	7.9	7.3	2.4
AUGUST	03	0	0.7	7.5	10.7	2.8	1.1	0.4	0.6	1.4	6.7	3.0	3.2	2.5
	09	0.1	1.1	15.3	12.9	1.6	2.2	1.7	0.9	1.8	7.8	4.4	7.0	3.6
	15	0.1	1.5	15.5	13.6	0.3	4.3	1.2	0.4	1.0	4.6	5.5	8.7	5.0
	21	0	0.9	10.3	15.8	4.0	1.7	0.7	0.9	0.9	7.4	7.9	5.4	2.1
SEPTEMBER	03	0	1.5	8.1	9.9	1.5	0.4	0.6	1.1	2.7	6.3	3.3	3.5	1.6
	09	0.1	2.2	15.2	11.6	0.9	1.1	2.2	1.8	3.3	8.5	3.8	5.6	2.8
	15	0.1	3.3	15.8	9.9	0.9	2.2	3.3	1.0	1.9	4.9	5.6	7.2	3.0
	21	0.1	1.3	13.1	13.4	2.1	1.6	1.1	2.0	3.1	6.9	6.0	4.8	2.4
OCTOBER	03	0.2	1.5	9.7	8.6	1.7	1.1	0.7	0.2	1.8	6.9	3.8	3.0	2.5
	09	0.2	1.1	13.8	14.1	1.8	2.4	1.3	0.6	3.7	9.3	4.8	4.3	2.8
	15	0.1	1.5	16.8	11.6	1.0	3.2	2.2	1.0	3.3	6.1	5.2	5.7	3.3
	21	0.3	1.4	11.2	14.3	3.8	2.4	1.2	0.8	3.3	9.7	3.8	3.4	2.6
NOVEMBER	03	0.2	1.4	9.5	8.0	1.9	1.6	1.1	0.6	2.2	7.6	2.1	2.3	1.6
	09	0	2.2	12.9	12.7	2.2	2.9	1.7	1.8	2.5	10.0	3.5	3.5	1.9
	15	0.1	1.9	14.7	12.0	1.3	2.7	3.2	1.7	3.0	7.0	3.4	5.0	2.7
	21	0	1.7	13.6	12.4	2.3	2.2	2.0	2.2	2.6	8.8	3.5	4.1	2.3
DECEMBER	03	0.3	3.0	10.5	7.1	0.8	0.7	0.8	1.0	2.7	6.4	3.7	4.5	1.1
	09	0.1	4.2	15.0	10.9	0.8	1.1	1.7	1.2	4.2	9.6	4.8	5.0	2.6
	15	0.5	3.1	16.2	10.3	0.9	1.0	1.7	1.5	3.2	8.0	5.3	6.4	3.0
	21	0.3	4.2	15.5	9.9	1.1	1.1	1.6	1.0	3.4	9.7	3.9	6.5	2.7

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59

MOUNT BATTEN

Month	GMT	Beaufort force					Direction							
		≥8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		≥ 34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	0.2	2.1	11.1	12.3	5.3	2.4	1.7	4.9	1.5	2.4	2.6	7.7	2.5
	09	0.1	2.3	9.2	14.3	5.1	2.2	2.3	5.3	1.1	2.2	3.0	6.9	2.9
	15	0.1	3.1	14.0	11.4	2.4	3.5	2.0	4.7	1.4	2.8	3.5	7.2	3.5
	21	0.5	2.5	8.9	14.2	4.9	2.1	2.2	5.3	0.8	2.5	3.1	7.5	2.6
FEBRUARY	03	0.1	2.0	8.6	12.5	5.0	2.0	3.1	4.0	1.2	2.1	3.1	5.0	2.7
	09	0.1	2.4	8.6	12.1	5.0	2.4	3.0	5.2	1.2	2.3	1.5	5.9	1.7
	15	0.1	2.3	14.1	10.8	0.9	3.1	1.9	4.7	1.2	3.2	3.5	6.8	2.9
	21	0.2	1.1	10.1	12.6	4.2	2.1	2.6	4.8	1.0	2.0	3.5	6.2	1.8
MARCH	03	0	2.2	10.9	13.4	4.5	2.0	1.8	10.3	1.9	2.8	1.5	5.2	1.0
	09	0.2	1.7	14.4	11.6	3.1	0.6	2.5	10.4	1.8	2.9	2.4	4.7	2.6
	15	0	3.5	16.5	10.9	0.1	1.1	1.6	9.5	2.2	4.6	5.4	4.6	1.9
	21	0	2.2	10.9	15.0	2.9	1.9	2.5	9.8	1.4	4.0	2.9	4.2	1.4
APRIL	03	0	0.8	9.7	12.8	6.7	2.4	3.2	5.2	0.8	1.5	2.0	5.8	2.4
	09	0	1.4	13.8	11.5	3.3	3.7	1.9	5.9	1.3	2.0	3.2	5.0	3.7
	15	0.1	2.2	17.0	10.6	0.1	3.4	1.2	4.6	1.6	3.9	6.5	5.1	3.6
	21	0	0.7	8.8	15.6	4.9	3.2	2.4	4.8	0.3	2.2	2.5	6.2	3.5
MAY	03	0.1	0.7	7.9	15.6	6.7	2.6	2.3	7.4	0.9	2.6	2.7	3.6	2.2
	09	0	1.1	13.7	14.7	1.5	2.4	1.7	7.7	1.4	4.1	4.5	4.6	3.1
	15	0.1	1.6	16.5	12.3	0.5	2.3	0.7	6.2	1.5	5.8	6.8	4.0	3.2
	21	0	0.8	7.9	18.6	3.7	3.5	1.5	6.2	0.9	3.1	2.7	5.9	3.5
JUNE	03	0	0.4	6.6	14.7	8.3	1.4	1.0	4.0	0.9	2.4	2.1	6.6	3.3
	09	0.1	0.7	10.7	17.0	1.5	1.4	0.4	5.1	0.8	2.9	6.4	6.8	4.7
	15	0.1	0.9	15.7	13.2	0.1	1.5	0.7	3.0	0.7	4.3	8.0	7.2	4.5
	21	0	0.5	6.4	18.4	4.7	2.8	1.0	3.0	0.8	1.6	4.0	7.4	4.7

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

MOUNT BATTEN

Month	GMT	Beaufort force					Direction							
		⩾8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
		knots												
		⩾ 34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JULY	03	0	0.9	7.4	14.4	8.3	1.4	1.0	2.6	0.8	1.8	2.8	8.9	3.4
	09	0.1	0.3	11.8	16.1	2.7	1.9	0.7	3.5	1.2	2.7	5.1	8.9	4.3
	15	0	1.2	16.2	13.4	0.2	1.4	0.4	2.5	0.9	4.3	7.9	9.0	4.4
	21	0	0.4	8.4	18.4	3.8	2.6	1.1	2.2	0.1	1.8	3.9	10.2	5.3
AUGUST	03	0	0.6	7.6	14.3	8.5	1.4	1.5	2.8	1.0	2.2	3.1	8.2	2.3
	09	0	1.0	10.5	15.9	3.6	2.1	0.6	3.4	0.5	4.0	5.2	9.1	2.5
	15	0	1.6	15.9	13.3	0.2	1.9	0.5	1.5	1.2	4.7	9.1	7.9	4.0
	21	0	0.4	9.3	16.9	4.4	2.6	1.0	3.1	0.8	2.7	2.6	10.4	3.4
SEPTEMBER	03	0	1.5	9.4	12.1	7.0	0.3	2.0	5.4	1.1	2.6	2.0	7.9	1.7
	09	0	1.1	12.7	12.0	4.2	1.3	1.6	4.7	1.3	3.6	2.5	8.3	2.5
	15	0.1	2.3	16.4	10.8	0.4	1.4	1.3	4.4	1.0	4.3	6.4	7.9	2.9
	21	0	1.6	8.6	16.2	3.6	1.6	2.6	4.3	0.7	2.7	2.8	10.2	1.5
OCTOBER	03	0.1	1.2	6.9	15.2	7.6	1.5	1.9	6.4	0.2	2.4	2.7	6.7	1.6
	09	0	1.3	8.9	14.5	6.3	1.7	0.9	5.7	1.6	1.9	2.9	7.4	2.6
	15	0	2.0	14.3	13.8	0.9	2.3	0.9	5.0	2.0	2.7	5.4	7.7	4.1
	21	0	1.7	8.0	16.1	5.2	1.4	1.8	7.1	1.1	2.2	2.6	7.0	2.6
NOVEMBER	03	0.3	2.3	8.9	13.1	5.4	2.6	2.5	5.3	0.9	2.6	2.8	5.8	2.1
	09	0.3	1.8	9.1	13.3	5.5	1.6	2.9	6.0	1.3	2.3	2.0	6.2	2.2
	15	0.2	2.6	11.3	13.1	2.8	3.2	1.8	4.7	1.7	3.2	3.0	6.9	2.7
	21	0.4	2.2	8.6	14.8	4.0	1.5	3.8	5.7	0.8	3.4	1.9	6.4	2.5
DECEMBER	03	0.3	3.2	10.4	12.1	5.0	1.2	1.9	4.2	1.2	2.5	2.7	9.6	2.7
	09	0.3	3.0	9.0	14.1	4.6	1.9	1.9	5.1	1.7	2.6	3.2	7.3	2.7
	15	0.2	4.6	12.5	11.5	2.2	2.1	1.7	3.5	1.9	2.4	4.0	9.5	3.7
	21	0.3	3.8	10.6	13.3	3.0	1.2	2.3	5.4	1.3	2.9	3.0	8.6	3.3

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59

SCILLY

Month	GMT	Beaufort force					Direction							
		≥8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
		knots												
		≥34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	0.6	6.4	15.7	7.0	1.3	3.5	2.8	2.4	2.0	5.3	3.7	5.5	4.5
	09	0.6	6.9	14.0	8.4	1.1	3.7	3.1	2.6	2.1	4.9	4.3	5.8	3.4
	15	0.3	7.4	15.5	7.2	0.6	3.4	2.9	2.4	1.8	5.1	4.5	5.9	4.4
	21	0.3	7.2	15.1	7.4	1.0	3.6	3.2	2.4	1.8	5.2	4.2	5.6	4.0
FEBRUARY	03	0.6	5.7	14.5	6.8	0.6	3.3	2.9	3.0	1.9	3.1	5.1	4.6	3.7
	09	0.4	5.6	14.3	6.8	1.1	3.7	3.3	3.2	1.6	3.0	3.5	6.3	2.5
	15	0.6	6.0	14.2	7.0	0.4	3.7	3.2	3.3	1.7	2.9	4.1	6.0	2.9
	21	0.5	4.8	14.8	6.6	1.5	4.0	2.4	3.2	2.1	2.8	3.5	5.4	3.3
MARCH	03	0.2	4.7	15.4	9.3	1.4	1.9	3.6	4.8	5.2	4.7	2.7	4.6	2.1
	09	0.2	4.8	16.6	7.8	1.6	2.0	3.5	5.4	3.9	4.4	3.3	5.2	1.7
	15	0	5.3	17.3	8.0	0.4	2.4	3.4	5.1	4.9	4.5	4.0	4.5	1.8
	21	0.1	4.6	15.3	10.5	0.5	2.6	3.4	5.6	4.9	4.1	3.1	4.4	2.4
APRIL	03	0.1	3.5	14.3	10.1	2.0	4.2	3.5	4.8	1.7	2.9	2.9	3.9	4.1
	09	0.3	3.5	14.8	10.3	1.1	4.7	4.1	4.3	2.0	2.8	2.9	4.3	3.8
	15	0.2	3.1	16.7	9.7	0.3	4.6	3.6	4.2	1.6	3.7	3.6	5.4	3.0
	21	0	3.0	15.3	9.9	1.8	4.4	4.0	3.2	2.0	2.3	3.8	4.4	4.1
MAY	03	0.1	1.8	15.3	12.5	1.3	4.5	3.6	4.4	1.5	3.2	3.3	5.1	4.1
	09	0.2	1.5	16.1	12.0	1.2	4.7	3.8	4.6	2.9	4.1	2.4	4.4	2.9
	15	0.2	2.1	17.1	10.8	0.8	5.7	2.6	4.4	2.7	3.7	3.5	4.2	3.4
	21	0.1	1.5	14.3	13.0	2.1	5.6	3.0	3.9	1.5	3.1	3.2	4.9	3.7
JUNE	03	0	1.3	12.3	13.8	2.6	4.6	2.3	2.0	1.2	2.8	4.0	6.0	4.5
	09	0	1.7	12.5	13.8	2.0	3.8	3.0	2.5	1.5	2.7	3.9	5.7	4.9
	15	0	1.7	14.5	13.3	0.5	5.0	2.4	2.8	1.3	2.5	4.9	6.6	4.0
	21	0	1.4	11.6	13.9	3.1	4.1	2.1	2.1	1.7	2.4	4.4	5.1	5.0

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

SCILLY

Month	GMT	Beaufort force					Direction							
		≥8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
		knots												
		≥34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JULY	03	0.1	1.8	12.8	14.1	2.2	4.9	1.9	1.1	1.1	1.7	4.0	7.4	6.7
	09	0	1.4	13.9	13.6	2.1	4.0	2.5	1.9	0.9	1.6	4.4	8.5	5.1
	15	0	1.6	15,9	13.0	0.5	5.6	2.0	1.8	0.3	2.1	4.7	9.4	4.6
	21	0	1.4	13.9	13.8	1.9	4.8	1.9	0.7	0.7	1.5	4.2	8.3	7.0
AUGUST	03	0	2.0	11.7	13.9	3.4	2.8	1.5	1.4	1.1	3.1	4.7	8.2	4.8
	09	0	1.1	13.6	14.2	2.1	3.8	1.6	1.9	1.2	3.6	5.1	7.1	4.6
	15	0	1.8	15.9	12.5	0.8	3.9	1.5	0.9	1.8	3.7	5.2	9.0	4.2
	21	0	1.6	11.9	15.5	2.0	3.2	1.7	1.0	1.7	3.6	4.0	9.0	4.8
SEPTEMBER	03	0.3	3.1	14.1	10.8	1.7	2.5	1.7	3.2	1.4	3.8	4.2	6.7	4.8
	09	0.3	2.2	14.4	11.0	2.1	2.3	1.8	3.3	2.1	3.5	4.0	6.4	4.5
	15	0.2	3.2	15.4	10.5	0.7	2.7	2.2	2.7	2.4	3.4	3.8	8.3	3.8
	21	0.2	2.7	12.8	12.7	1.6	2.2	2.5	2.4	2.4	3.0	4.0	8.0	3.9
OCTOBER	03	0.1	2.8	13.2	13.1	1.8	3.1	1.6	3.0	3.4	3.8	3.9	5.7	4.7
	09	0	2.7	13.6	12.2	2.5	3.9	1.8	3.0	3.1	2.7	4.5	5.1	4.4
	15	0	3.2	15.3	11.4	1.1	4.0	1.6	2.2	3.8	3.9	4.6	5.7	4.1
	21	0.2	3.4	13.5	12.2	1.7	3.9	1.1	3.9	3.4	3.2	3.8	5.4	4.6
NOVEMBER	03	0.3	5.4	12.4	10.2	1.7	2.8	2.8	3.3	3.0	3.5	3.7	4.6	4.6
	09	0.3	4.6	13.8	9.3	2.0	3.9	2.5	3.7	1.9	4.2	4.0	3.7	4.1
	15	0.4	5.2	13.5	8.8	2.1	3.3	2.6	2.9	1.8	4.5	3.7	5.2	3.9
	21	0.7	4.2	14.4	8.9	1.8	3.4	3.1	3.2	2.1	3.6	4.9	4.6	3.3
DECEMBER	03	1.0	6.4	14.6	8.4	0.6	2.6	1.2	2.2	2.4	4.4	5.9	8.0	3.7
	09	0.7	7.1	14.3	7.5	1.4	2.1	1.8	2.0	2.1	4.7	4.8	7.1	5.0
	15	0.8	8.6	13.8	6.7	1.1	2.4	1.5	1.9	2.4	3.2	5.5	8.4	4.6
	21	1.0	7.1	13.9	8.5	0.5	1.8	1.8	2.0	2.6	3.7	4.9	8.6	5.1

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59

ALDERGROVE

Month	GMT	Beaufort force					Direction							
		≥8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
				knots										
		≥34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JANUARY	03	0	2.0	12.0	15.2	1.8	1.4	1.2	2.5	3.5	9.2	6.3	3.0	2.1
	09	0.1	1.7	11.3	15.2	2.7	1.7	0.9	2.6	3.0	10.1	4.8	3.3	1.9
	15	0.4	2.2	13.3	13.8	1.3	2.1	0.5	2.5	2.3	8.5	7.0	3.8	3.0
	21	0.3	1.8	12.3	15.0	1.6	1.2	1.3	2.1	3.7	9.2	5.9	4.0	2.0
FEBRUARY	03	0	1.4	8.5	15.3	3.0	2.7	1.9	2.9	2.2	6.9	4.3	2.7	1.6
	09	0.1	0.8	10.1	14.4	2.8	2.4	1.6	2.8	3.1	6.6	4.5	2.7	1.7
	15	0	1.6	12.4	12.9	1.3	2.7	1.4	2.7	3.2	3.9	5.3	4.5	3.2
	21	0.1	1.1	8.4	16.7	1.9	2.7	1.6	3.5	2.5	6.9	3.4	4.0	1.7
MARCH	03	0	1.0	11.2	15.8	3.0	1.6	2.3	5.9	4.9	6.7	3.5	1.6	1.5
	09	0	1.4	12.5	14.1	3.0	1.2	1.7	5.8	6.2	6.1	3.7	2.3	1.0
	15	0	1.9	16.2	12.5	0.4	2.4	1.8	4.9	5.5	5.5	4.0	4.5	2.0
	21	0	0.9	10.3	18.4	1.4	3.0	2.3	6.1	6.1	5.7	3.0	2.2	1.2
APRIL	03	0	0.5	8.9	17.4	3.2	2.6	1.5	2.6	1.5	6.4	4.5	3.6	4.1
	09	0.1	1.1	12.3	14.1	2.4	3.7	1.8	2.2	2.2	4.0	6.2	4.0	3.5
	15	0	2.1	14.0	13.6	0.3	3.5	2.0	2.7	2.3	2.6	6.8	4.6	5.2
	21	0	1.0	7.6	19.5	1.9	4.9	1.4	3.6	3.3	3.5	3.4	3.9	4.1
MAY	03	0	0.2	8.3	19.2	3.3	4.1	2.2	7.0	2.5	4.2	2.0	2.7	3.0
	09	0	0.8	12.6	14.9	2.7	3.3	2.7	5.0	3.8	2.8	3.4	3.3	4.0
	15	0	1.1	15.4	14.1	0.4	4.4	2.1	5.2	4.1	3.0	2.7	4.8	4.3
	21	0	0.5	8.1	21.3	1.1	5.4	3.1	5.9	4.4	2.7	1.7	2.7	4.0
JUNE	03	0	0	7.2	18.2	4.6	2.7	1.0	5.0	1.8	4.8	3.5	3.9	2.7
	09	0	0.5	9.5	17.4	2.6	4.0	1.3	4.0	1.7	3.5	5.0	4.2	3.7
	15	0	0.4	12.1	16.9	0.6	3.4	1.0	3.9	2.9	3.8	4.8	5.2	4.4
	21	0	0.5	5.8	21.6	2.1	5.2	1.5	4.1	4.1	3.9	2.8	3.5	2.8

TABLE I – AVERAGE FREQUENCY OF WIND SPEED AND DIRECTION AT 0300, 0900, 1500 AND 2100 GMT FROM 1950-59 *(contd)*

ALDERGROVE

Month	GMT	Beaufort force					Direction							
		≥ 8	6-7	4-5	1-3	Calm	N	NE	E	SE	S	SW	W	NW
		knots												
		≥ 34	22-33	11-21	1-10	0	340°-020°	030°-060°	070°-110°	120°-150°	160°-200°	210°-240°	250°-290°	300°-330°
JULY	03	0	0.1	6.5	20.1	4.3	2.3	1.2	2.4	2.3	4.5	4.9	5.9	3.2
	09	0	0.2	8.6	19.6	2.6	3.3	1.1	2.1	1.4	3.8	6.3	6.5	3.9
	15	0	0.5	11.2	18.2	1.1	4.0	1.0	1.6	1.3	3.7	5.0	8.3	5.0
	21	0	0.4	6.2	21.3	3.1	5.2	1.4	3.2	2.6	3.0	3.3	5.5	3.7
AUGUST	03	0	0.8	6.1	18.6	5.5	2.1	1.2	2.3	1.9	7.0	3.6	4.8	2.6
	09	0	0.7	9.2	17.4	3.7	3.1	1.3	1.8	1.5	5.5	6.2	5.2	2.7
	15	0.1	1.2	10.6	18.0	1.1	4.2	1.5	1.4	2.5	4.1	6.2	6.2	3.8
	21	0.1	0.4	5.9	21.2	3.4	4.0	1.3	3.6	2.2	5.6	2.9	4.6	3.4
SEPTEMBER	03	0	1.2	9.3	15.4	4.1	1.4	1.1	2.6	3.5	6.3	5.0	4.2	1.8
	09	0.1	1.4	12.1	13.3	3.1	1.4	1.0	2.3	3.0	6.5	6.1	4.0	2.6
	15	0.1	2.0	14.9	11.9	1.1	2.2	1.0	1.7	3.7	5.4	4.7	6.6	3.6
	21	0	1.0	10.3	16.8	1.9	1.7	1.2	3.1	3.9	5.6	4.7	5.3	2.6
OCTOBER	03	0	0.5	11.4	16.8	2.3	1.8	0.2	1.9	4.0	7.6	7.4	4.2	1.6
	09	0.1	0.7	12.1	15.3	2.8	1.3	0.4	1.5	3.6	8.1	7.5	3.7	2.1
	15	0.1	1.7	16.2	12.7	0.3	1.7	0.4	1.5	3.3	6.5	7.4	6.0	3.9
	21	0.1	1.3	10.5	16.9	2.2	1.2	0.5	1.5	4.9	7.6	6.0	4.4	2.7
NOVEMBER	03	0.1	1.8	9.2	16.9	2.0	2.3	1.3	2.6	2.5	9.7	4.7	3.7	1.2
	09	0.1	1.4	8.9	16.7	2.9	1.7	1.0	2.8	2.6	8.8	5.0	3.7	1.5
	15	0.2	1.6	12.0	14.3	1.9	2.2	1.6	2.2	2.1	5.3	6.5	5.2	3.0
	21	0.2	1.2	9.5	16.7	2.4	2.3	1.0	3.1	2.4	8.2	5.3	3.2	2.1
DECEMBER	03	0.3	3.1	12.9	13.2	1.5	1.6	0.8	2.5	3.0	9.7	6.7	3.8	1.4
	09	0.3	2.8	13.7	12.1	2.1	1.3	1.0	2.4	2.5	10.4	7.5	2.5	1.3
	15	0.2	2.7	14.2	12.0	1.9	1.1	0.7	2.7	2.4	7.7	8.1	4.0	2.4
	21	0	3.2	13.3	13.4	1.1	1.4	1.0	2.4	3.6	9.8	7.1	3.1	1.5

TABLE II – MEAN HIGHEST HOURLY WIND SPEED AND MAXIMUM HOURLY WIND SPEED

Station	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.
	knots																							
Lerwick	47	**65**	43	56	39	52	38	56	33	43	32	41	29	40	33	49	36	51	42	52	41	51	44	58
Kirkwall	42	**52**	35	42	34	40	34	47	29	39	28	37	25	32	27	36	30	37	36	44	37	47	37	43
Butt of Lewis	51	**56**	43	54	43	48	42	49	36	46	33	43	33	40	32	37	38	46	46	52	43	52	48	**56**
Stornoway	43	**64**	44	57	39	44	38	55	33	42	32	40	29	39	34	45	37	44	41	51	42	51	47	**64**
Dyce	37	**55**	34	44	28	32	27	34	27	30	22	26	22	25	23	31	27	32	29	33	29	34	29	36
Aberdeen	28	43	29	42	26	37	25	37	21	34	21	34	19	27	21	29	23	35	26	**48**	27	37	34	42
Balmakewan	29	34	23	33	23	29	23	29	21	29	20	30	17	25	18	23	20	24	23	30	24	31	23	**41**
Bell Rock	49	62	44	54	41	52	41	57	37	55	34	52	32	41	34	49	39	52	44	59	43	56	47	**65**
Leuchars	31	39	31	**40**	28	35	28	39	25	36	23	27	22	26	26	33	27	30	28	36	29	36	31	**40**
Edinburgh	36	45	33	46	30	40	30	45	24	36	25	39	23	32	24	36	28	37	30	46	31	44	34	**48**
Tiree	43	57	39	**60**	33	42	32	39	29	39	27	37	27	35	29	48	32	41	37	58	37	48	43	56
Millport	37	**50**	30	36	33	43	29	34	33	41	31	44	26	33	29	41	29	40	31	40	35	44	37	45
Paisley	26	37	24	**40**	23	32	23	31	20	26	19	27	18	28	19	26	21	26	23	35	23	34	26	37
Renfrew	31	39	29	**46**	26	32	28	36	25	33	24	32	22	25	24	30	27	31	26	32	29	33	32	45
Abbotsinch	29	38	29	37	26	35	27	35	23	29	22	28	21	25	22	33	23	35	29	**49**	25	33	25	44
Prestwick	35	**43**	32	**43**	27	39	26	35	24	33	24	32	23	33	24	32	29	**43**	28	40	29	38	35	**43**
Eskdalemuir	36	**49**	34	47	31	42	31	48	28	43	27	39	25	37	27	37	29	38	31	**49**	32	44	33	42
Point of Ayre	38	48	36	46	33	48	31	48	28	42	27	34	28	37	29	38	31	**56**	35	48	37	48	37	49
Durham	32	40	29	**43**	27	41	27	40	22	30	23	33	21	28	21	28	23	32	26	35	27	38	29	36
South Shields	36	**56**	32	49	30	41	29	47	27	42	25	37	23	29	25	35	26	34	30	43	30	41	31	43
Catterick	27	**43**	29	39	24	37	23	29	20	25	20	29	19	23	20	26	21	34	26	35	23	29	26	36
Linton-on-Ouse	27	34	24	32	23	30	25	**36**	21	28	21	31	21	26	23	29	25	**36**	24	26	25	**36**	25	29
Spurn Head	37	**51**	36	46	33	47	34	49	30	42	29	42	29	40	31	44	32	44	35	45	36	46	36	49
Cranwell	31	43	29	42	27	**45**	28	**45**	24	35	22	32	23	31	23	40	25	33	27	36	28	42	29	41
Gorleston	33	41	41	42	29	**48**	28	39	27	38	25	38	25	37	24	35	27	35	31	41	33	43	34	42

TABLE II – MEAN HIGHEST HOURLY WIND SPEED AND MAXIMUM HOURLY WIND SPEED *(contd)*

Station	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.
													knots											
Mildenhall	30	40	28	35	29	**54**	27	40	23	33	22	31	23	29	22	26	25	34	27	40	27	42	28	38
Felixstowe	32	**46**	30	42	29	43	27	38	26	32	26	39	27	40	25	34	27	39	30	38	30	44	30	37
Dunstable	29	34	25	37	27	**42**	24	37	23	29	19	23	20	23	19	27	22	29	23	30	24	36	26	34
Cardington	35	44	32	43	33	**55**	31	48	27	41	25	37	26	33	25	40	28	46	31	42	30	**55**	32	42
Stevenage	26	33	24	30	24	32	21	26	20	30	18	23	20	27	15	28	21	26	21	29	25	**38**	26	31
Rothamsted	22	24	17	21	20	25	16	18	18	24	14	15	15	18	14	17	15	17	18	23	18	**26**	17	**26**
Shoeburyness	37	49	33	44	32	43	30	44	29	41	26	47	27	**52**	26	42	28	43	32	42	33	**52**	35	48
Leicester	23	**37**	20	28	23	**37**	23	35	17	24	17	24	15	19	16	18	18	22	20	27	22	36	20	25
Edgbaston	27	36	25	37	24	**38**	24	37	21	30	19	24	20	25	20	26	22	28	23	33	25	**38**	25	35
Keele	27	29	25	28	24	29	21	23	21	26	19	20	18	23	17	21	19	26	21	26	23	**34**	23	28
Avonmouth	35	39	30	37	30	**43**	29	38	27	33	28	31	30	39	29	39	30	38	32	39	34	**43**	33	37
Kingsway	23	29	21	28	21	29	19	24	18	21	18	22	17	22	17	20	18	23	17	23	20	**30**	20	24
South Kensington	20	23	19	23	17	23	17	20	16	21	16	21	16	23	15	21	17	23	17	22	18	**28**	18	23
Hampton	25	30	22	28	23	**32**	20	23	20	25	20	22	22	33	20	27	21	25	21	30	24	31	24	30
Kew	24	30	23	29	23	29	22	29	21	25	19	27	19	29	18	25	20	**31**	21	25	22	**31**	23	30
Croydon	29	**44**	26	37	27	40	25	36	23	38	23	34	23	34	22	29	23	32	25	37	28	43	28	37
Manston	32	37	31	41	30	**42**	28	37	26	34	22	29	23	29	24	30	28	40	26	39	29	38	29	34
Rye	28	35	30	**44**	28	**44**	27	34	22	27	22	31	20	25	24	31	26	35	25	38	26	32	29	34
Dover	32	**43**	31	40	29	41	28	35	27	33	26	34	26	42	26	41	28	38	30	40	33	41	33	40
Lympne	33	44	32	41	29	39	30	40	27	39	24	35	24	32	24	32	26	40	30	38	32	**47**	31	42
Thorney Island	29	34	25	36	26	33	23	34	23	32	22	24	21	37	22	29	23	30	25	33	27	**41**	27	33
Calshot	35	43	32	40	29	43	30	37	28	37	26	**45**	29	39	27	36	28	44	32	41	34	44	32	43
South Farnborough	27	**43**	23	37	24	**43**	23	34	19	24	20	24	21	28	19	26	21	27	21	31	22	29	23	29
Abingdon	26	32	25	31	23	30	22	28	20	24	20	23	21	26	20	28	22	25	23	30	23	**34**	24	31
Larkhill	31	**41**	29	39	29	**41**	28	39	30	37	24	35	23	37	22	32	25	**41**	28	35	28	37	29	39

TABLE II – MEAN HIGHEST HOURLY WIND SPEED AND MAXIMUM HOURLY WIND SPEED *(contd)*

Station	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
	mean	max.	mean	max.	mean	max.	mean	max.	mean	max,	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.
	knots																							
Worthy Down	30	39	26	32	27	**40**	23	33	23	29	21	23	20	25	20	24	22	29	26	30	27	33	25	35
Boscombe Down	30	**43**	29	40	28	42	26	40	24	34	23	35	23	31	22	40	23	37	27	37	26	37	27	38
Porton	31	35	27	36	29	**38**	24	30	27	30	24	26	26	34	23	29	24	29	28	33	29	**38**	29	33
Sellafield	31	38	27	39	26	33	24	29	25	35	25	30	26	32	26	33	30	36	31	36	33	41	32	**44**
Fleetwood	35	52	35	49	29	48	34	**53**	29	46	29	42	29	44	31	49	34	46	35	51	35	52	37	52
Barton	35	46	33	39	31	40	31	37	27	31	27	37	26	31	28	42	27	38	37	**49**	30	39	32	39
Southport	40	51	36	54	34	46	36	52	32	46	32	43	32	42	32	44	36	56	37	**61**	38	53	40	54
Speke	36	42	35	40	33	40	31	43	29	38	27	32	27	33	29	41	33	41	31	41	29	**46**	35	41
Bidston	36	48	34	44	29	43	30	48	26	42	27	37	32	38	27	43	29	43	32	**56**	33	46	36	50
Ringway	31	42	31	39	30	38	29	**49**	25	37	25	34	24	34	25	33	27	35	27	44	29	39	30	37
Sealand	30	41	30	43	26	38	28	44	23	37	25	33	24	36	24	34	25	34	27	40	28	**48**	28	39
Holyhead	39	51	37	**56**	33	46	32	41	29	43	27	40	28	34	28	36	32	40	37	**56**	37	43	38	49
Valley	38	44	35	46	32	39	30	37	30	37	30	34	31	36	32	39	36	42	38	47	40	**52**	39	47
Aberporth	40	46	33	39	34	42	29	34	29	36	27	32	29	48	28	37	31	36	37	49	38	**50**	40	47
Kete	38	45	35	50	33	46	25	30	28	33	28	37	28	39	28	30	32	40	37	49	39	**56**	38	45
Milford Haven	34	37	28	40	28	35	24	26	25	31	24	29	25	36	24	31	26	33	29	40	34	**45**	33	41
Port Talbot	33	38	28	33	30	43	26	37	26	30	25	30	27	38	27	38	31	39	31	39	35	43	35	**46**
St Ann's Head	51	66	53	57	37	47	39	52	34	44	31	43	34	43	34	41	39	59	44	63	47	**69**	45	52
Plymouth Hoe	37	52	33	49	33	53	30	48	29	43	26	40	27	44	27	37	30	46	36	47	37	49	38	**56**
Lizard	45	57	43	56	38	52	36	51	32	54	30	53	30	57	31	42	37	55	39	48	43	**64**	43	52
Pendennis	44	55	41	58	38	54	37	50	33	48	29	44	29	39	29	55	34	56	37	57	41	55	43	**61**
Scilly	43	57	40	52	36	54	35	48	34	56	30	41	33	45	30	43	36	**60**	38	52	42	**60**	41	59
Aldergrove	33	43	29	45	26	33	28	37	24	36	23	31	22	27	23	36	27	40	30	39	30	**47**	31	40

TABLE III – MEAN HIGHEST GUST SPEED AND MAXIMUM GUST

Station	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.
	knots																							
Lerwick	69	89	63	83	57	75	56	78	48	65	45	60	43	58	47	69	52	71	61	80	62	80	64	**90**
Kirkwall	65	**87**	62	77	56	67	55	68	49	66	45	53	43	55	46	58	49	64	60	76	62	73	63	74
Butt of Lewis	76	**87**	66	80	63	78	61	69	51	63	45	56	48	56	46	52	53	65	66	76	63	72	69	76
Stornoway	64	94	66	87	59	82	57	85	48	62	47	56	40	52	49	65	54	65	58	77	63	88	69	**96**
Dyce	57	**88**	53	70	43	50	42	59	42	46	39	45	33	40	38	51	43	51	48	63	45	53	50	70
Aberdeen	52	65	50	**72**	45	56	45	63	37	53	38	54	36	43	37	51	43	54	47	71	48	62	50	66
Balmakewan	46	61	41	52	41	50	40	49	37	49	35	49	31	49	33	41	37	48	44	59	44	61	43	**73**
Bell Rock	68	83	61	75	55	76	56	77	49	74	46	68	43	55	46	67	54	74	61	**88**	58	85	64	87
Leuchars	52	63	51	65	45	58	43	61	42	49	39	48	37	46	43	51	44	52	46	55	48	64	52	**71**
Edinburgh	57	74	54	**75**	49	66	49	71	41	60	42	61	39	50	41	59	46	65	49	69	51	73	56	74
Tiree	65	**98**	59	93	49	63	49	65	42	57	41	59	40	55	43	65	48	63	57	90	57	75	64	88
Millport	63	82	53	61	49	62	49	64	49	61	46	62	39	48	43	58	48	60	50	63	58	75	66	**94**
Paisley	56	**90**	52	75	48	63	47	62	42	59	42	62	38	50	41	53	45	59	49	83	50	62	55	75
Renfrew	59	**84**	54	76	45	63	48	65	43	57	42	56	39	48	43	54	47	56	46	56	49	59	58	79
Abbotsinch	55	73	54	69	49	63	49	66	41	49	43	53	40	49	41	52	43	58	54	**80**	50	65	51	77
Prestwick	57	**77**	54	69	45	61	46	64	42	72	41	51	40	49	42	52	49	74	46	58	51	65	57	59
Eskdalemuir	58	76	54	70	51	68	50	**79**	45	59	45	59	42	55	45	55	49	60	52	78	53	76	55	74
Point of Ayre	58	74	55	73	50	73	48	69	41	56	42	51	43	55	43	60	48	66	53	72	56	69	58	**78**
Durham	58	75	55	**83**	51	70	53	75	43	52	45	63	42	55	43	58	49	63	50	67	51	67	55	73
South Shields	55	**76**	49	70	48	67	47	**76**	42	59	40	54	38	48	39	60	43	53	48	63	48	64	49	62
Catterick	50	**76**	53	67	43	61	42	56	40	50	37	49	38	46	39	54	41	61	49	69	45	57	47	60
Linton-on-Ouse	44	52	42	52	43	57	46	**58**	37	50	38	48	35	41	39	47	45	54	43	49	46	54	45	54
Spurn Head	55	73	50	76	47	67	49	**79**	43	57	42	57	43	57	43	58	47	70	50	68	52	65	52	76
Cranwell	52	72	48	60	45	70	48	70	43	56	40	54	41	55	39	54	43	55	46	60	48	67	48	**96**
Gorleston	49	63	46	66	45	**71**	42	64	40	56	38	59	38	58	37	49	40	57	46	60	49	69	49	63

TABLE III – MEAN HIGHEST GUST SPEED AND MAXIMUM GUST *(contd)*

Station	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.
	knots																							
Mildenhall	53	72	49	71	49	**85**	45	64	43	56	40	56	40	51	39	47	43	56	46	62	47	79	51	71
Felixstowe	53	70	49	**75**	47	69	43	61	41	55	41	57	42	63	39	52	42	63	46	60	46	**75**	48	72
Dunstable	47	61	43	63	45	**71**	42	67	39	56	36	47	35	43	34	52	37	49	39	50	42	63	46	57
Cardington	54	71	48	65	49	**81**	47	72	43	59	39	59	40	51	39	62	43	76	47	61	48	75	50	67
Stevenage	48	55	43	52	44	56	40	52	40	59	35	40	37	45	35	46	39	44	43	55	48	**67**	47	60
Rothamsted	46	52	41	50	43	53	36	38	39	56	32	34	37	43	33	44	35	42	43	52	43	**63**	45	52
Shoeburyness	52	72	48	63	47	69	45	68	41	58	40	63	39	66	40	57	42	63	49	**74**	49	72	49	66
Leicester	43	59	44	50	44	**73**	44	64	35	47	36	47	32	47	33	37	37	44	39	55	41	68	40	49
Edgbaston	51	69	47	68	44	69	43	67	39	53	37	47	37	49	37	52	41	54	44	65	47	**73**	47	65
Keele	58	**75**	50	61	47	56	40	54	41	48	37	42	40	49	39	51	42	55	46	54	45	61	49	61
Avonmouth	54	59	45	55	48	57	43	52	41	48	43	48	43	56	42	55	46	54	49	56	50	**64**	53	62
Kingsway	49	60	45	60	46	**67**	40	61	40	52	41	56	38	43	38	50	39	52	39	52	42	55	44	51
South Kensington	50	61	45	52	41	48	39	49	37	42	38	50	37	44	37	45	40	53	44	57	43	**62**	43	53
Hampton	50	58	42	51	48	61	38	45	41	47	37	43	40	50	37	48	41	51	44	61	45	59	47	**66**
Kew	49	62	46	57	46	**63**	43	62	41	49	39	56	39	58	39	54	41	60	44	60	43	**63**	45	**63**
Croydon	52	67	49	63	46	64	43	66	41	58	39	63	39	60	37	49	42	60	45	60	47	**70**	49	68
Manston	54	**71**	52	61	49	65	46	59	41	55	40	46	38	52	40	49	46	64	44	**71**	49	62	48	58
Rye	48	57	48	**71**	45	70	44	50	35	39	37	50	36	43	42	49	41	51	41	62	41	52	47	56
Dover	50	76	48	67	45	63	43	52	42	49	40	52	42	60	41	59	43	63	49	79	51	**80**	50	61
Lympne	53	**75**	49	63	47	65	47	65	42	63	40	58	40	64	40	56	42	67	48	63	50	71	50	68
Thorney Island	51	65	48	68	46	57	43	60	42	58	42	44	43	67	43	55	44	56	49	58	50	**71**	51	62
Calshot	51	69	47	60	41	59	42	55	41	56	40	**76**	43	66	40	55	41	70	49	64	49	63	48	70
South Farnborough	50	63	45	62	48	**69**	43	64	41	55	37	44	39	53	37	50	40	54	42	54	43	59	46	57
Abingdon	46	59	44	53	43	54	41	52	37	43	37	48	37	49	37	48	42	47	41	51	41	59	45	**68**
Larkhill	55	68	50	65	50	**69**	46	63	43	59	41	56	40	**69**	39	53	43	**69**	48	59	48	67	49	62

TABLE III – MEAN HIGHEST GUST SPEED AND MAXIMUM GUST *(contd)*

Station	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.	mean	max.
	knots																							
Worthy Down	50	**72**	46	58	44	61	40	50	40	50	37	47	37	47	37	43	38	51	44	49	48	62	47	69
Boscombe Down	52	64	50	63	46	**75**	44	63	40	57	39	56	38	50	37	57	41	61	47	70	45	63	47	60
Porton	50	58	44	55	44	52	39	47	43	47	38	42	40	49	37	49	40	46	45	**62**	47	60	49	55
Sellafield	53	65	49	67	44	49	41	49	43	55	42	49	42	54	43	58	50	58	54	64	50	68	56	**76**
Fleetwood	53	76	52	68	46	73	48	74	43	61	41	55	43	61	43	66	48	69	52	74	53	74	56	**79**
Barton	56	76	52	59	49	63	49	58	45	55	43	56	43	50	46	64	44	60	62	**80**	50	61	55	68
Southport	57	77	51	75	48	69	49	72	43	63	43	55	43	57	43	63	48	78	51	**83**	54	76	56	76
Speke	56	72	56	66	52	69	47	62	44	53	43	54	43	58	45	60	50	58	50	62	56	**77**	58	75
Bidston	61	**88**	58	75	51	67	51	76	46	63	46	62	47	64	47	67	52	68	56	83	56	85	61	82
Ringway	55	72	55	67	53	67	51	**79**	44	58	42	50	43	51	43	54	47	57	50	68	50	63	54	71
Sealand	52	71	51	70	43	57	47	64	39	54	41	54	39	55	39	58	43	56	49	70	50	**76**	50	67
Holyhead	62	75	56	**93**	50	69	50	69	45	66	42	57	43	62	43	53	50	70	55	80	55	71	59	72
Valley	63	**79**	51	68	47	58	42	50	44	52	43	48	43	56	46	58	50	57	58	73	59	78	59	70
Aberporth	62	69	54	65	52	62	44	52	44	57	43	49	45	69	44	55	49	57	56	73	59	**81**	60	76
Kete	64	77	56	66	53	69	36	40	43	49	44	54	43	63	40	46	47	59	61	78	65	**95**	59	68
Milford Haven	57	66	50	64	50	64	42	48	43	55	41	49	43	62	42	50	45	65	51	65	61	**84**	56	66
Port Talbot	55	60	46	58	48	67	44	52	43	49	41	61	43	60	43	55	49	62	49	58	56	70	56	**71**
St Ann's Head	75	>**98**	65	81	54	69	56	74	48	63	46	66	49	62	48	55	56	78	67	90	68	94	69	83
Plymouth Hoe	53	68	49	65	49	**83**	44	64	42	58	38	56	38	60	37	52	43	64	50	73	52	71	53	76
Lizard	68	79	65	80	56	82	52	71	49	76	44	69	44	81	45	59	52	82	57	79	63	**85**	64	78
Pendennis	63	89	58	**90**	54	71	50	76	46	60	43	63	43	55	43	69	50	85	56	77	56	71	62	89
Scilly	66	84	60	79	55	82	51	74	49	78	45	60	43	68	46	63	52	87	58	77	62	91	62	**96**
Aldergrove	56	69	51	71	45	54	49	65	43	61	41	67	37	49	40	56	44	60	51	71	50	**73**	52	64

TABLE IV – AVERAGE NUMBER OF DAYS WITH GUSTS EXCEEDING 33 KNOTS

PERIOD 1950-59

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
Lerwick	20.5	16.4	15.1	10.9	6.6	6.3	5.3	6.6	10.1	17.3	17.8	20.6	153.5
Stornoway	18.4	13.5	13.5	12.9	7.6	6.8	4.5	6.4	12.7	17.8	15.4	19.9	149.4
Dyce	9.4	6.0	5.0	3.7	3.4	2.7	1.3	1.4	3.7	5.0	5.7	9.1	56.4
Bell Rock	17.1	14.5	11.4	10.0	7.8	6.3	4.6	5.9	11.6	15.1	13.8	17.1	135.2
Leuchars	6.7	6.2	3.8	4.6	3.8	2.4	1.5	2.6	4.7	5.5	6.1	9.4	57.3
Edinburgh	9.8	7.8	6.3	6.4	4.1	3.6	1.9	3.6	6.4	9.4	7.2	12.2	78.7
Tiree	19.7	13.9	14.4	10.4	6.8	4.9	3.5	5.8	12.5	18.7	15.2	22.3	148.1
Paisley	8.8	6.6	4.2	4.4	4.9	3.0	1.3	2.7	5.5	6.8	5.2	9.4	62.8
Renfrew	8.2	6.0	5.4	6.1	5.7	2.7	1.6	3.0	6.0	7.4	5.6	11.5	69.2
Prestwick	10.4	6.4	5.2	4.6	3.5	2.2	1.6	2.3	7.2	7.2	7.3	14.0	71.9
Eskdalemuir	11.0	8.6	7.3	8.4	8.0	5.6	4.0	4.4	8.4	10.6	8.2	14.4	98.9
Point of Ayre	12.7	8.1	6.6	5.3	3.6	3.3	3.8	3.6	8.8	10.3	10.0	15.1	91.2
Durham	9.9	7.4	5.5	6.8	4.6	2.9	2.9	2.6	6.2	7.4	5.9	10.4	72.5
South Shields	9.6	8.7	5.6	4.6	3.6	2.4	2.4	2.3	4.3	6.7	5.3	8.5	64.0
Cranwell	9.1	7.2	6.6	6.1	5.3	3.1	4.1	4.1	6.6	7.9	5.8	10.5	76.4
Gorleston	9.4	6.7	6.0	4.0	3.9	1.7	2.5	2.7	3.3	5.3	6.3	8.2	60.0
Mildenhall	7.2	5.2	5.3	4.1	4.9	1.8	2.3	2.6	3.5	4.5	5.2	6.6	53.2
Felixstowe	8.6	6.1	5.8	5.6	4.4	2.8	5.0	4.4	6.1	6.3	6.7	9.0	70.8
Dunstable	3.8	3.2	3.1	1.7	1.5	0.7	0.7	0.6	1.6	1.6	2.1	4.7	25.3
Cardington	8.2	5.7	5.6	5.6	4.5	2.3	3.2	2.1	4.7	5.3	4.8	8.5	59.5
Shoeburyness	9.5	8.6	6.9	6.5	5.4	2.5	5.6	4.9	6.5	6.8	8.1	9.0	80.3
Edgbaston	6.0	4.1	4.3	3.5	2.9	1.1	1.2	1.6	4.1	3.5	5.1	6.5	43.9
Keele	7.0	6.0	6.4	3.1	5.0	2.3	2.4	1.6	5.3	4.0	4.7	8.9	56.7
Kingsway*	6.8	6.1	4.4	4.2	2.1	2.5	2.8	2.3	2.8	2.1	4.1	4.6	44.8
Hampton	6.7	4.0	5.1	3.3	4.3	1.6	3.0	2.7	3.8	3.7	4.2	5.5	47.9
Kew	7.4	5.8	4.5	4.6	5.3	2.3	3.2	3.4	3.6	3.7	4.6	6.1	54.5
Croydon	7.1	5.8	5.0	3.2	3.4	1.3	3.0	1.9	3.2	3.2	4.9	6.1	48.1
Thorney Island	6.6	6.0	4.9	4.4	3.4	1.9	2.9	2.9	4.7	4.2	5.1	6.2	53.2
South Farnborough	5.8	4.6	4.5	3.2	2.9	0.7	1.7	0.9	2.5	2.5	3.6	5.6	38.5
Abingdon	5.7	5.3	4.6	5.1	3.2	1.6	2.9	2.2	4.4	3.7	3.3	5.4	47.4
Larkhill	8.6	7.3	6.2	6.2	5.8	3.0	3.0	3.2	5.2	4.9	7.0	9.6	69.6
Sellafield	9.8	6.0	5.5	3.9	4.1	3.8	3.2	4.0	9.9	9.9	10.4	12.7	83.2
Fleetwood	12.1	8.1	7.5	6.0	6.8	5.2	5.0	4.7	9.6	10.7	9.4	13.0	98.1
Southport	9.6	7.2	5.6	6.7	5.9	3.3	5.1	3.9	9.7	8.7	8.4	10.5	84.6
Speke	9.5	8.0	6.9	7.2	7.4	3.8	4.8	4.3	8.6	9.1	7.4	12.0	89.0
Bidston	13.3	8.5	8.4	7.8	8.4	4.5	6.4	5.6	10.5	11.4	10.1	14.9	109.8
Ringway	10.1	7.3	8.6	5.1	6.0	3.0	3.0	3.6	6.9	7.7	6.6	10.9	78.8
Valley	12.7	9.1	6.9	5.0	5.7	3.9	4.6	4.4	8.7	10.9	10.3	15.4	97.6
Aberporth	16.1	12.1	11.6	6.2	7.0	4.3	5.1	4.7	9.4	11.2	11.8	16.7	116.2
Plymouth Hoe	10.2	7.5	8.3	6.3	5.1	2.7	2.3	2.8	4.9	5.6	8.0	10.1	73.8
Lizard	16.0	13.4	12.1	7.6	6.2	4.7	4.1	5.9	8.3	9.6	13.7	17.7	119.4
Scilly	17.6	14.9	14.7	11.5	7.6	5.5	4.9	6.5	9.1	10.3	15.5	18.3	136.4
Aldergrove	9.5	7.2	7.1	5.5	5.3	2.8	2.7	3.1	8.0	6.6	8.1	11.8	77.7

*Period 1945-54

TABLE V – AVERAGE NUMBER OF DAYS WITH GUSTS EXCEEDING 40 KNOTS

PERIOD 1950-59

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
Lerwick	14.4	11.1	9.0	5.5	3.1	2.7	1.3	2.5	5.6	10.5	11.2	14.6	91.5
Stornoway	14.7	8.8	8.1	7.8	3.7	3.5	1.2	3.4	7.2	11.8	10.4	14.3	94.9
Dyce	4.9	3.3	1.4	0.4	0.6	0.1	0	0.3	1.5	2.1	2.4	3.4	20.4
Bell Rock	10.1	8.7	6.9	4.7	2.0	2.3	0.5	2.4	6.1	8.3	8.9	12.3	73.2
Leuchars	3.9	3.0	1.5	1.2	1.0	0.7	0.5	1.3	1.2	2.3	3.2	5.2	25.0
Edinburgh	5.8	4.8	2.2	2.6	1.1	1.1	0.4	1.2	2.8	4.2	4.3	7.5	38.0
Tiree	11.9	8.8	6.7	4.4	1.9	1.2	1.3	2.6	5.1	10.1	10.0	16.1	80.1
Paisley	4.4	3.0	1.4	1.7	1.0	1.0	0.4	1.2	2.8	3.0	3.2	5.3	28.4
Renfrew	3.9	3.3	1.9	2.1	1.2	1.4	0.6	1.2	2.8	3.0	2.9	6.9	31.2
Prestwick	5.4	2.9	1.2	1.2	0.9	0.5	0.4	1.0	2.9	2.6	3.5	7.8	30.3
Eskdalemuir	5.8	3.8	2.7	3.6	3.2	1.7	0.8	1.4	3.7	4.6	4.4	9.0	44.7
Point of Ayre	6.7	3.5	2.3	2.2	0.5	0.6	0.6	1.2	3.9	4.3	3.9	8.7	38.4
Durham	5.9	3.6	2.3	2.7	1.8	1.0	0.4	1.0	2.9	3.6	2.8	6.5	34.5
South Shields	3.9	3.6	2.1	2.2	1.2	0.6	0.3	0.8	1.6	2.4	3.0	4.0	25.7
Cranwell	3.6	3.0	3.1	2.9	1.3	0.3	1.0	1.1	2.6	2.0	2.4	4.2	27.5
Gorleston	4.4	2.4	2.7	0.6	0.7	0.4	0.8	1.0	0.6	2.4	2.2	3.7	21.9
Mildenhall	3.1	2.3	2.0	1.3	1.0	0.1	0.6	0.5	1.4	1.7	1.7	3.4	19.1
Felixstowe	3.3	2.1	2.1	1.6	1.2	0.3	1.2	1.0	1.3	2.0	2.7	3.0	21.8
Dunstable	1.3	0.8	0.7	0.7	0.4	0	0.2	0.1	0.5	0.4	0.8	2.0	7.9
Cardington	3.9	2.4	2.2	1.3	1.8	0.4	0.9	0.6	1.2	1.7	2.1	4.4	22.9
Shoeburyness	4.3	3.9	3.1	2.6	1.6	0.8	0.8	1.5	2.2	2.6	3.1	4.0	30.5
Edgbaston	2.7	1.9	1.6	1.0	0.4	0.1	0.4	0.2	1.0	0.8	1.9	2.9	14.9
Keele	3.4	2.3	1.4	0.6	0.7	0.3	0.4	0.4	0.9	1.1	2.1	4.4	18.0
Kingsway*	2.8	1.9	1.5	2.1	0.6	0.9	0.4	0.4	0.6	0.5	1.7	1.9	15.3
Hampton	2.8	1.1	1.8	0.5	1.3	0.3	0.7	0.5	0.7	1.0	1.2	2.2	14.1
Kew	3.0	1.8	1.8	0.9	1.0	0.1	0.4	0.4	0.7	1.3	1.3	2.4	15.1
Croydon	3.2	1.9	1.7	1.0	1.1	0.1	0.5	0.3	0.9	1.4	1.5	2.4	16.0
Thorney Island	2.8	1.7	1.2	0.9	0.7	0.4	0.8	0.8	1.1	1.8	2.2	3.2	17.6
South Farnborough	1.9	1.8	1.2	0.5	0.5	0	0.4	0.3	0.7	0.8	1.3	2.1	11.5
Abingdon	2.0	1.7	1.3	0.8	0.8	0.1	0.5	0.5	1.2	0.8	1.1	1.6	12.4
Larkhill	4.0	3.6	2.9	2.4	1.1	0.2	0.6	0.9	1.8	1.8	3.0	4.4	26.7
Sellafield	5.7	2.6	1.9	2.0	1.3	1.3	1.0	1.1	4.6	4.6	4.9	6.3	37.3
Fleetwood	5.6	3.1	2.6	2.1	1.3	1.1	1.0	1.6	4.3	5.2	5.4	7.3	40.6
Southport	4.8	2.7	1.6	3.3	1.6	0.6	1.0	1.3	5.3	3.7	4.3	6.1	36.3
Speke	5.1	4.3	2.9	2.7	2.7	1.2	1.0	1.4	4.6	3.6	4.0	7.2	40.7
Bidston	7.1	4.6	3.8	3.1	2.9	1.7	2.4	2.6	5.4	5.5	5.3	9.7	54.1
Ringway	4.6	3.4	2.3	1.7	1.6	0.4	0.9	1.0	2.7	2.1	3.7	5.3	29.7
Valley	6.9	4.7	2.1	1.7	2.3	1.5	1.6	2.1	4.9	5.0	5.7	9.1	47.6
Aberporth	9.7	5.6	6.1	3.0	2.4	1.5	1.4	1.4	4.3	5.2	5.6	11.0	57.2
Plymouth Hoe	5.0	3.9	4.1	2.0	1.9	0.9	0.5	0.6	2.1	2.1	4.4	4.4	31.9
Lizard	10.4	8.1	6.4	4.1	7.4	1.9	1.9	2.1	4.0	4.5	8.7	12.4	71.9
Scilly	11.9	10.5	7.1	4.5	2.5	2.0	1.6	2.3	4.9	4.1	9.0	11.9	72.3
Aldergrove	5.3	3.0	2.2	2.7	1.5	1.1	0.4	1.5	3.0	3.1	3.6	6.5	33.9

*Period 1945-54

TABLE VI – AVERAGE NUMBER OF DAYS WITH GUSTS EXCEEDING 50 KNOTS

PERIOD 1950-59

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
Lerwick	6.8	4.8	1.9	1.2	0.8	0.2	0	0.7	1.0	3.5	3.7	7.0	31.6
Stornoway	6.9	5.1	2.7	1.8	0.9	0	0.1	1.0	1.4	4.0	4.6	7.9	36.4
Dyce	1.3	0.9	0	0.1	0	0	0	0.1	0.1	0.6	0.1	0.6	3.8
Bell Rock	3.6	3.3	1.7	1.9	0.5	0.4	0	0.3	2.7	3.0	4.1	5.6	27.1
Leuchars	0.7	0.7	0.1	0.3	0	0	0	0.1	0.1	0.4	0.6	1.3	4.3
Edinburgh	2.1	1.9	0.7	0.6	0.1	0.3	0	0	0.5	1.1	1.0	1.8	10.1
Tiree	5.3	3.2	1.3	0.9	0.4	0.2	0.2	0.8	1.4	2.5	2.9	7.0	26.1
Paisley	1.4	0.7	0.2	0.3	0	0.2	0	0.1	0.3	0.3	1.0	1.6	6.1
Renfrew	1.4	0.5	0.1	0.4	0	0.1	0	0.1	0.3	0.3	1.0	2.2	6.4
Prestwick	1.7	0.6	0.1	0.3	0.1	0	0	0.2	0.6	0.2	1.0	2.0	6.8
Eskdalemuir	2.1	0.9	0.6	0.6	0.3	0.1	0.1	0.7	0.8	0.5	1.4	2.7	10.8
Point of Ayre	1.6	0.9	0.2	0.5	0.1	0	0.2	0.3	0.8	0.8	1.4	2.8	9.5
Durham	1.7	0.9	0.6	1.0	0	0.3	0	0.3	0.9	0.8	1.1	2.1	9.7
South Shields	1.2	0.6	0.4	0.3	0.1	0.2	0	0.1	0.3	0.2	0.4	1.0	4.8
Cranwell	0.6	0.6	0.3	0.4	0.1	0	0	0	0.2	0.2	0.2	0.7	3.3
Gorleston	0.6	0.4	0.1	0	0.1	0	0.2	0	0	0.6	0.5	0.7	3.2
Mildenhall	0.9	0.5	0.5	0	0.2	0	0	0	0	0.1	0.3	0.9	3.4
Felixstowe	0.8	0.6	0.1	0.3	0.2	0	0.1	0.1	0.1	0.6	0.9	0.8	4.6
Dunstable	0	0	0.1	0.1	0.1	0	0	0	0	0.1	0.3	0.1	0.8
Cardington	1.1	0.3	0.7	0	0.5	0	0.2	0.2	0.1	0.6	0.5	1.3	5.5
Shoeburyness	0.8	0.7	0.7	0.1	0	0	0.1	0.3	0.2	0.8	0.8	1.0	5.5
Edgbaston	0.6	0	0.5	0	0	0	0	0.1	0	0	0.5	0.7	2.4
Keele	1.0	0.6	0.3	0.1	0	0	0	0.1	0.1	0.3	0.4	0.7	3.6
Kingsway*	0.7	0.5	0.2	0.3	0	0.2	0	0	0.1	0.1	0.1	0	2.2
Hampton	0.5	0.1	0.5	0	0	0	0	0.1	0	0.3	0.5	0.3	2.3
Kew	0.3	0.1	0.2	0.1	0	0	0.1	0.1	0	0	0.5	0.3	1.7
Croydon	0.4	0.4	0.1	0	0	0	0.1	0	0	0	0.5	0.6	2.1
Thorney Island	0.4	0.4	0.3	0.1	0.1	0	0.1	0	0.3	0.3	0.7	0.6	3.3
South Farnborough	0.4	0.2	0.2	0.1	0.1	0	0	0	0	0.2	0.3	0.4	1.9
Abingdon	0.1	0	0.3	0	0	0	0	0	0	0	0.2	0.4	1.0
Larkhill	0.8	0.7	0.5	0.1	0.1	0	0.1	0.1	0.2	0.5	0.8	1.1	5.0
Sellafield	0.9	0.5	0.1	0	0.2	0	0.1	0.2	1.2	1.1	1.8	1.5	7.6
Fleetwood	1.6	0.4	0.2	0.3	0.2	0.1	0.2	0.3	0.8	0.8	1.4	2.4	8.7
Southport	1.4	0.4	0	0.6	0.3	0	0.2	0.2	0.9	0.4	1.4	2.3	8.1
Speke	2.2	0.9	0.5	0.3	0.4	0.1	0.2	0.2	1.4	0.6	1.4	2.4	10.6
Bidston	2.9	1.0	0.7	0.6	0.6	0	0.4	0.6	1.6	1.7	2.2	4.1	16.4
Ringway	1.3	0.9	0.4	0.4	0	0	0.1	0	1.0	0.4	0.7	1.3	6.5
Valley	2.1	1.0	0.1	0	0.1	0	0.1	0.4	1.0	1.4	2.4	2.4	11.0
Aberporth	2.7	1.2	1.1	0.3	0.5	0	0.1	0.3	0.8	0.9	1.9	4.0	13.8
Plymouth Hoe	0.6	0.8	0.6	0.2	0.3	0.2	0.1	0	0.5	0.6	1.2	1.4	6.5
Lizard	5.0	3.3	1.5	0.4	0.9	0.3	0.1	0.2	1.1	1.2	2.9	5.7	22.6
Scilly	5.1	4.4	2.5	1.3	0.7	0.1	0.1	0	1.4	1.6	3.4	6.0	26.6
Aldergrove	2.2	0.6	0	0.7	0.2	0	0	0.3	0.9	0.5	1.3	1.6	8.3

*Period 1945-54

TABLE VII – AVERAGE NUMBER OF DAYS WITH GUSTS EXCEEDING 60 KNOTS

PERIOD 1950-59

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
Lerwick	1.7	1.9	0.2	0.3	0.2	0	0	0	0.1	0.4	1.1	1.9	6.8
Stornoway	2.2	1.9	0.3	0.3	0.1	0	0	0.4	0.2	1.1	0.8	3.1	10.4
Dyce	0.1	0.1	0	0	0	0	0	0	0	0.1	0	0.1	0.4
Bell Rock	1.0	1.5	0.6	0.3	0.1	0	0	0	0.5	0.6	1.2	1.9	7.7
Leuchars	0.2	0.2	0	0	0	0	0	0	0	0	0.1	0.5	1.0
Edinburgh	0.3	0.3	0	0.1	0	0	0	0	0	0	0.1	0.6	1.4
Tiree	2.1	0.5	0.1	0.2	0	0	0	0.1	0.2	0.5	0.9	2.8	7.4
Paisley	0.4	0.2	0	0	0	0	0	0	0	0	0	0.6	1.2
Renfrew	0.5	0.2	0	0	0	0	0	0	0	0	0	0.5	1.2
Prestwick	0.7	0.1	0	0	0.1	0	0	0	0.1	0	0.1	0.7	1.8
Eskdalemuir	0.2	0.1	0	0.1	0	0	0	0	0	0	0.1	0.6	1.1
Point of Ayre	0.5	0.1	0	0	0	0	0	0	0	0.2	0.2	0.4	1.4
Durham	0.8	0.1	0.2	0.1	0	0	0	0	0.1	0	0.1	0.5	1.9
South Shields	0.5	0	0.2	0	0	0	0	0	0	0	0	0.1	0.8
Cranwell	0.3	0	0	0.1	0	0	0	0	0	0	0	0.2	0.6
Gorleston	0	0	0	0	0	0	0	0	0	0	0.2	0	0.2
Mildenhall	0.2	0.1	0.1	0	0	0	0	0	0	0	0.2	0.3	0.9
Felixstowe	0.1	0.1	0.1	0	0	0	0.1	0	0	0	0.2	0.3	0.9
Dunstable	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Cardington	0.1	0	0.2	0	0	0	0	0	0	0	0.2	0.2	0.7
Shoeburyness	0	0	0.1	0	0	0	0.1	0	0	0	0.3	0.1	0.6
Edgbaston	0.1	0	0	0	0	0	0	0	0	0	0.2	0.2	0.5
Keele	0.4	0.1	0	0	0	0	0	0	0	0	0.1	0.1	0.7
Kingsway*	0	0	0.1	0	0	0	0	0	0	0	0	0	0.1
Hampton	0	0	0.1	0	0	0	0	0	0	0.1	0	0.1	0.3
Kew	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Croydon	0.1	0	0	0	0	0	0	0	0	0	0.1	0.1	0.3
Thorney Island	0	0	0	0	0	0	0.1	0	0	0	0.3	0.1	0.5
South Farnborough	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Abingdon	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
Larkhill	0.2	0	0.1	0	0	0	0.1	0	0	0	0.3	0.1	0.8
Sellafield	0.2	0.2	0.1	0	0	0	0	0	0	0.3	0.4	0.6	1.8
Fleetwood	0.3	0	0.1	0.2	0	0	0.1	0.1	0.2	0.2	0.7	1.0	2.9
Southport	0.3	0	0	0.1	0	0	0	0	0.3	0	0.4	0.9	2.0
Speke	0.7	0.2	0	0	0	0	0	0	0	0.2	0.3	0.4	1.8
Bidston	1.0	0.3	0.1	0.2	0.1	0	0.2	0.1	0.7	0.5	0.8	1.5	5.5
Ringway	0.2	0.2	0	0.1	0	0	0	0	0	0	0	0.2	0.7
Valley	0.4	0.1	0	0	0	0	0	0	0	0.5	0.9	0.5	2.4
Aberporth	0.6	0.2	0.1	0	0	0	0.1	0	0.4	0.4	0.7	0.5	3.0
Plymouth Hoe	0	0.1	0.1	0.1	0	0	0	0	0	0	0.2	0.5	1.0
Lizard	1.1	1.2	0.3	0	0.4	0	0.1	0	0.5	0.3	1.1	1.9	6.9
Scilly	0.6	1.3	0.3	0.1	0.1	0	0.1	0	0.5	0.4	1.5	1.7	6.6
Aldergrove	0.3	0.3	0	0	0	0	0	0	0	0.1	0.2	0.3	1.2

*Period 1945-54

TABLE VIII – AVERAGE NUMBER OF HOURS WITH GUSTS EXCEEDING 33 KNOTS

PERIOD 1950-59

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
Lerwick	225	167	148	84	57	54	29	36	87	157	172	233	1449
Stornoway	197	132	117	106	56	46	24	47	99	159	140	199	1322
Dyce	53	34	21	15	15	8	4	5	19	25	28	42	269
Bell Rock	163	116	95	70	53	39	14	39	97	130	140	184	1140
Leuchars	40	33	16	18	15	12	6	17	19	26	33	64	299
Edinburgh	65	53	34	35	15	19	7	18	42	48	51	93	480
Tiree	198	127	119	69	35	29	22	46	100	169	149	259	1322
Paisley	49	30	22	24	17	12	6	15	24	31	36	72	335
Renfrew	55	36	30	28	24	15	8	17	29	36	36	81	395
Prestwick	77	37	23	20	16	8	7	15	41	42	55	105	446
Eskdalemuir	86	54	43	48	42	23	15	27	54	57	52	102	603
Point of Ayre	101	53	37	33	18	14	14	23	65	66	75	127	626
Durham	65	43	31	35	22	14	11	11	33	40	37	78	420
South Shields	58	48	34	25	15	14	9	12	25	34	30	55	359
Cranwell	59	40	40	32	21	11	17	17	41	36	35	69	418
Gorleston	68	36	40	14	17	4	14	9	12	34	40	48	340
Mildenhall	38	28	26	17	15	4	9	8	21	20	22	45	253
Felixstowe	52	34	36	31	24	13	28	17	37	35	38	58	403
Dunstable	15	9	11	8	6	1	3	2	5	7	10	23	100
Cardington	46	32	34	25	23	7	16	11	20	27	24	63	328
Shoeburyness	63	53	48	33	29	13	25	24	35	34	52	67	476
Edgbaston	29	17	20	15	9	3	3	5	15	10	20	35	181
Keele	39	24	29	11	16	7	9	8	21	11	22	46	243
Kingsway*	34	31	20	25	8	10	7	10	11	8	20	21	205
Hampton	37	19	23	12	16	5	9	7	12	13	18	33	204
Kew	35	27	25	19	18	6	14	10	13	14	18	33	232
Croydon	38	29	26	15	13	4	9	8	13	15	21	35	226
Thorney Island	33	33	22	20	13	7	14	14	22	22	28	41	269
South Farnborough	26	21	19	12	9	1	5	3	9	9	15	28	157
Abingdon	26	27	27	20	13	4	11	8	18	12	13	31	210
Larkhill	52	46	36	32	25	9	15	12	28	17	35	58	365
Sellafield	67	32	27	24	16	19	18	30	69	59	62	83	506
Fleetwood	94	54	40	38	32	30	33	33	83	74	69	107	687
Southport	75	42	32	50	34	16	32	26	89	56	62	82	596
Speke	69	42	38	41	35	19	17	27	64	47	47	85	531
Bidston	107	56	50	60	41	32	44	38	90	78	74	127	797
Ringway	55	43	38	25	24	8	11	16	39	24	38	63	384
Valley	101	60	37	28	34	26	25	31	73	87	73	133	708
Aberporth	149	88	92	46	42	24	27	27	66	90	82	162	895
Plymouth Hoe	57	46	56	25	23	13	10	8	27	26	50	60	401
Lizard	167	115	102	60	42	24	25	26	59	67	123	199	1009
Scilly	192	160	130	91	50	32	26	33	70	81	149	201	1215
Aldergrove	63	35	35	34	21	16	10	21	44	36	45	77	437

*Period 1945-54

TABLE IX – AVERAGE NUMBER OF HOURS WITH GUSTS EXCEEDING 47 KNOTS

PERIOD 1950-59

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
Lerwick	50	34	12	8	4	2	0.4	3	5	24	27	55	224
Stornoway	49	36	12	12	6	1	0.3	6	12	28	35	59	255
Dyce	7	3	1	0.7	0	0	0	0.3	0.5	3	0.4	3	19
Bell Rock	31	22	12	13	3	2	0.2	3	17	19	34	44	200
Leuchars	3	4	0.4	0.7	0.1	0.1	0	0.4	0.6	1	2	7	19
Edinburgh	12	10	3	2	0.1	0.4	0	0.2	2	4	5	13	51
Tiree	44	26	10	8	4	0.4	2	8	10	19	27	64	222
Paisley	10	3	1	2	0.2	0.5	0	0.4	0.7	1	4	11	34
Renfrew	9	4	0.8	2	0.1	0.4	0	0.4	0.7	2	3	10	32
Prestwick	12	3	0.6	0.6	0.4	0	0	0.7	2	3	4	14	40
Eskdalemuir	12	5	2	3	2	0.7	0.4	4	3	4	4	13	53
Point of Ayre	11	4	0.6	2	0.5	0.1	1	2	5	2	7	17	52
Durham	16	5	5	4	0.4	1	0.4	2	4	4	7	13	62
South Shields	8	4	2	2	0.6	1	0	0.6	1	1	2	5	27
Cranwell	4	2	2	2	0.8	0	0.2	0	2	0.5	2	5	20
Gorleston	4	4	4	0	0.6	0	0.7	0	0	3	4	2	22
Mildenhall	5	2	2	0.3	1	0	0.2	0	0.1	0.7	1	4	16
Felixstowe	4	3	2	0.9	0.6	0	0.8	0.1	0.8	3	4	5	24
Dunstable	0.2	0.1	0.5	0.3	0.1	0	0	0	0	0.1	0.8	1	3
Cardington	5	2	3	0	1	0	0.9	2	0.8	2	2	6	25
Shoeburyness	5	3	4	0.6	1	0.1	1	1	2	3	5	6	32
Edgbaston	4	0.9	2	0.2	0	0	0.1	0.1	0.3	0.4	2	4	14
Keele	6	1	1	0.3	0.1	0	0.1	0.4	0.4	1	2	6	18
Kingsway*	3	2	1	1	0	0.2	0	0.1	0.2	0.2	0.1	0.4	8
Hampton	2	0.4	1	0	0	0	0.4	0.1	0.1	0.5	2	1	7
Kew	1	0.8	0.5	0.2	0	0	0.5	0.1	0	0.5	2	1	7
Croydon	2	0.9	0.7	0	0	0	0.9	0.3	0.3	0.1	3	2	10
Thorney Island	1	0.3	0.6	0.5	0.3	0	0.7	0	1	1	4	3	15
South Farnborough	1	0.6	0.6	0.2	0.1	0	0.1	0	0	0.6	1	2	6
Abingdon	0.5	0.6	1	0.1	0	0	0.1	0.1	0	0.1	0.6	1	4
Larkhill	5	4	3	0.8	0.3	0	0.8	0.4	0.7	2	3	5	25
Sellafield	4	2	0.8	0.1	1	0.6	1	2	8	6	8	12	45
Fleetwood	12	3	1	2	0.8	0.7	3	3	6	6	8	18	63
Southport	9	3	0.1	4	2	0	0.8	0.6	11	2	7	19	58
Speke	12	3	2	2	1	0.2	2	2	6	5	7	16	58
Bidston	18	6	3	4	3	0.9	3	5	14	11	15	34	116
Ringway	6	4	1	2	0	0	0.4	0.4	4	3	4	7	32
Valley	16	4	1	1	0.4	0.3	0.9	3	8	12	10	16	73
Aberporth	23	8	7	2	3	0.3	0.7	2	5	9	11	28	99
Plymouth Hoe	3	2	3	0.4	0.7	0.6	0.5	0.1	2	2	7	6	27
Lizard	36	22	12	3	8	2	1	0.6	8	7	25	42	166
Scilly	35	35	16	9	9	1	1	0.4	13	10	30	39	198
Aldergrove	9	3	0.5	3	0.7	0	0	3	5	3	6	10	43

*Period 1945-54

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

LERWICK (60° 08′N, 01° 11′W) 1950-59

Height of vane:

above MSL	310′
above ground	53′
above building	28′
effective height	37′

Eddies caused by the Observatory buildings gave rise to broad direction and velocity traces for north-west and south-east winds; otherwise the exposure was good.

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
		JANUARY												
Calm														3.8
1-3	1-3													5.5
4-6	4-7	1.4	0.4	0.3	0.2	0.3	0.2	0.3	1.0	0.7	0.6	0.6	1.1	7.1
7-10	8-12	1.8	0.7	0.4	0.4	0.4	0.6	0.6	1.7	1.3	1.1	1.7	2.4	13.1
11-16	13-18	3.1	0.3	0.4	0.5	0.7	0.7	0.9	2.8	1.5	1.1	2.0	2.6	16.6
17-21	19-24	2.6	0.6	0.5	0.3	0.6	1.2	1.6	2.5	2.0	1.7	2.1	2.4	18.1
22-27	25-31	1.2	0.4	0.2	0.2	0.4	1.9	2.3	2.3	2.6	2.4	1.8	1.2	16.9
28-33	32-38	0.7	0.4	0.1	0.1	0.7	1.8	2.0	0.9	1.7	1.7	1.0	0.6	11.7
34-40	39-46	0.2	0.2	0.3	0.3	0.4	1.0	1.1	1.0	0.7	0.5	0.3	0.1	6.1
41-47	47-54	0.1	0.1	0+			0.1	0.2	0.1	0.1	0.1	0.1	0+	0.9
48-55	55-63	0.1	0+					0+	0+		0+		0+	0.1
56-63	64-72	0.1	0+										0+	0.1
>63	>72	0+	0+											0+
TOTAL		11.3	3.1	2.2	2.0	3.5	7.5	9.0	12.3	10.6	9.2	9.6	10.4	100.0
Percentage number of hours missed														0
		FEBRUARY												
Calm														2.9
1-3	1-3													5.5
4-6	4-7	1.0	0.4	0.3	0.4	0.3	0.4	0.4	1.1	0.7	0.7	0.8	1.1	7.6
7-10	8-12	2.3	0.7	0.7	0.6	0.8	0.6	0.7	1.8	1.7	1.3	1.4	2.8	15.4
11-16	13-18	3.2	0.9	0.6	0.5	0.8	1.1	1.9	2.1	2.1	1.5	0.9	3.0	18.6
17-21	19-24	2.9	1.3	0.5	0.3	1.2	1.3	2.6	2.4	2.5	1.9	0.9	1.9	19.7
22-27	25-31	2.0	0.8	0.3	0.6	1.1	2.0	1.4	1.7	2.5	1.5	0.8	0.5	15.2
28-33	32-38	0.8	0.5	0.2	0+	0.9	1.4	1.3	1.3	1.4	1.6	0.5	0.3	10.2
34-40	39-46	0.3	0.1	0+		0.5	0.5	1.0	0.3	0.5	0.4	0.2	0.2	4.0
41-47	47-54	0+			0+	0.1	0+	0.2	0.2	0.2	0+			0.7
48-55	55-63							0+	0+	0.1				0.1
56-63	64-72								0+					0+
>63	>72													
TOTAL		12.5	4.7	2.6	2.4	5.7	7.3	9.5	10.9	11.7	8.9	5.5	9.8	99.9
Percentage number of hours missed														0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

LERWICK *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
								MARCH						
Calm														2.5
1-3	1-3													4.7
4-6	4-7	0.8	0.4	0.6	0.5	0.6	0.7	0.5	0.9	0.5	0.3	0.6	0.6	7.0
7-10	8-12	1.6	0.7	0.9	0.8	1.0	1.5	1.4	1.3	1.0	0.9	1.3	1.3	13.7
11-16	13-18	2.1	1.0	0.8	1.6	2.6	2.4	3.2	1.9	2.2	1.4	1.2	1.9	22.3
17-21	19-24	2.2	1.0	0.8	0.7	2.2	2.9	4.0	2.0	2.6	1.4	1.2	1.4	22.4
22-27	25-31	0.9	0.9	0.6	0.7	1.8	2.2	2.2	1.7	2.2	1.5	1.1	0.8	16.6
28-33	32-38	0.4	0.4	0.3		0.7	2.1	1.8	0.6	1.3	0.8	0.2	0.5	9.1
34-40	39-46		0.2	0+		0.2	0.3	0.3	0.1	0.1	0+	0.1	0.1	1.4
41-47	47-54						0.1	0.1			0+	0+		0.2
48-55	55-63										0+			0+
56-63	64-72													
>63	>72													
TOTAL		8.0	4.6	4.0	4.3	9.1	12.2	13.5	8.5	9.9	6.3	5.7	6.6	99.9
								Percentage number of hours missed						0
								APRIL						
Calm														2.8
1-3	1-3													6.5
4-6	4-7	0.8	0.8	0.8	0.5	0.6	1.0	1.3	0.7	0.7	1.0	1.1	1.7	11.0
7-10	8-12	1.7	1.6	0.7	0.6	1.0	1.7	2.4	1.2	1.9	2.1	1.8	2.7	19.4
11-16	13-18	2.3	1.1	0.8	0.4	0.7	2.0	3.6	2.7	3.5	2.2	2.3	3.4	25.0
17-21	19-24	2.2	1.1	0.4	0.2	0.4	0.8	3.3	1.9	2.1	2.9	1.7	1.9	18.9
22-27	25-31	0.9	0.6	0.2	0.1	0.1	0.5	1.6	2.1	1.9	1.5	1.1	0.7	11.3
28-33	32-38	0.4	0.1	0+		0+	0.1	0.5	0.8	1.1	0.5	0.4	0.1	4.0
34-40	39-46	0.1					0+	0.2	0.1	0.1	0.1	0.3	0.1	1.0
41-47	47-54								0+	0.1	0.1	0+		0.2
48-55	55-63									0+	0+			0+
56-63	64-72													
>63	>72													
TOTAL		8.4	5.3	2.9	1.8	2.8	6.1	12.9	9.5	11.4	10.4	8.7	10.6	100.1
								Percentage number of hours missed						0
								MAY						
Calm														4.0
1-3	1-3													9.2
4-6	4-7	1.1	1.7	0.9	1.3	1.5	1.9	1.0	0.4	0.7	0.9	1.2	1.0	13.6
7-10	8-12	1.9	2.7	2.1	1.5	1.9	3.1	2.0	0.6	1.1	1.5	1.9	2.1	22.4
11-16	13-18	2.0	2.0	1.9	1.4	1.7	3.2	2.4	0.7	1.6	2.5	1.8	2.7	23.9
17-21	19-24	1.9	1.3	1.7	0.5	0.6	1.2	0.8	0.7	1.9	1.9	1.4	2.3	16.2
22-27	25-31	0.7	1.2	0.6		0.1	0.2	0.1	0.3	1.0	1.2	1.1	1.0	7.5
28-33	32-38	0.4	0.1	0.6				0+	0.3	0.3	0.7	0.2	0.2	2.8
34-40	39-46	0+		0+					0.1	0.2	0+		0+	0.3
41-47	47-54									0.1				0.1
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		8.0	9.0	7.8	4.7	5.8	9.6	6.3	3.1	6.9	8.7	7.6	9.3	100.0
								Percentage number of hours missed						0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

LERWICK *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
								JUNE						
Calm														4.3
1-3	1-3													8.7
4-6	4-7	0.7	1.2	1.2	1.0	1.0	2.4	2.7	0.7	0.4	0.8	0.7	0.8	13.6
7-10	8-12	0.7	2.5	1.5	0.9	1.4	2.9	3.4	1.0	1.1	1.6	2.3	2.2	21.5
11-16	13-18	1.5	3.3	1.4	0.4	1.1	3.4	2.4	0.7	1.9	2.3	2.6	2.5	23.5
17-21	19-24	1.3	2.4	1.1	0.1	0.2	0.6	0.9	1.2	2.1	2.0	2.5	1.8	16.2
22-27	25-31	1.5	1.3	0.5	0+	0.1	0.1	0.3	0.9	2.1	0.9	0.6	0.6	8.9
28-33	32-38	0.4	0.6	0.1	0+			0.1	0.4	0.5	0.6	0.3	0.1	3.1
34-40	39-46								0+	0+	0.1	0+	0+	0.1
41-47	47-54										0+			0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.1	11.3	5.8	2.4	3.8	9.4	9.8	4.9	8.1	8.3	9.0	8.0	99.9
Percentage number of hours missed														0
								JULY						
Calm														3.5
1-3	1-3													8.3
4-6	4-7	1.0	1.2	0.6	0.5	0.9	2.2	1.4	0.9	0.9	1.2	0.9	0.9	12.6
7-10	8-12	1.6	1.7	1.2	1.1	2.1	3.0	2.3	1.6	2.1	2.7	1.9	2.3	23.6
11-16	13-18	2.2	2.3	1.1	1.1	1.7	1.8	2.1	1.0	3.4	3.4	3.1	2.7	25.9
17-21	19-24	1.6	2.1	0.5	0.9	0.7	0.4	0.5	0.7	3.4	2.8	2.8	1.5	17.9
22-27	25-31	1.0	0.6	0.2	0.3	0.1	0+	0.1	0.4	1.6	1.5	0.9	0.4	7.1
28-33	32-38	0+	0+		0.1				0.1	0.6	0.3	0.1		1.2
34-40	39-46									0+				0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		7.4	7.9	3.6	4.0	5.5	7.4	6.4	4.7	12.0	11.9	9.7	7.8	100.1
Percentage number of hours missed														0
								AUGUST						
Calm														3.1
1-3	1-3													8.1
4-6	4-7	0.9	0.7	0.8	1.3	1.2	1.8	1.6	1.1	0.7	1.2	1.3	1.4	14.0
7-10	8-12	1.9	2.2	1.1	1.1	2.1	3.1	3.4	1.7	1.6	1.8	1.9	2.6	24.5
11-16	13-18	2.9	2.4	1.3	0.9	1.1	2.9	3.0	1.9	2.0	2.6	2.6	2.7	26.3
17-21	19-24	1.8	1.4	0.4	0.4	0.3	1.2	1.6	1.3	2.3	1.6	1.1	1.6	15.0
22-27	25-31	0.9	0.8	0.3	0.1	0.3	0.3	0.6	0.4	1.5	0.9	0.6	0.3	7.0
28-33	32-38	0.1	0.1	0+		0.1	0+	0.1	0.1	0.5	0.3	0.2	0+	1.5
34-40	39-46		0+	0+					0.1	0.1	0.1	0.2		0.5
41-47	47-54								0+	0+				0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		8.5	7.6	3.9	3.8	5.1	9.3	10.3	6.6	8.7	8.5	7.9	8.6	100.0
Percentage number of hours missed														0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

LERWICK *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		SEPTEMBER												
Calm														4.6
1-3	1-3													5.9
4-6	4-7	1.0	0.3	0.3	0.3	0.9	1.4	2.0	1.2	0.6	0.9	1.2	1.4	11.5
7-10	8-12	1.0	0.6	0.2	0.3	1.0	2.8	3.3	1.6	1.2	1.8	2.5	1.9	18.2
11-16	13-18	2.3	1.0	0.1	0.4	1.7	3.5	4.6	2.0	2.7	2.3	2.7	2.6	25.9
17-21	19-24	1.3	0.8	0.3	0.5	0.8	2.0	2.6	1.6	2.6	2.1	1.7	1.8	18.1
22-27	25-31	0.5	0.3	0.2	0.1	0.6	0.9	0.8	1.1	1.6	1.9	1.5	1.2	10.7
28-33	32-38	0.2	0.1	0.1			0+	0.3	0.4	0.9	0.9	1.0	0.7	4.6
34-40	39-46	0+							0.1	0.1	0.2	0.2	0+	0.6
41-47	47-54								0+	0+	0.1	0+		0.1
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.3	3.1	1.2	1.6	5.0	10.6	13.6	8.0	9.7	10.2	10.8	9.6	100.2
		Percentage number of hours missed												0
		OCTOBER												
Calm														2.1
1-3	1-3													4.5
4-6	4-7	0.7	0.3	0.2	0.4	0.5	0.7	1.1	1.0	0.7	0.3	0.8	0.9	7.6
7-10	8-12	1.3	0.6	0.4	0.6	0.7	1.3	2.0	1.7	1.3	0.9	1.4	1.5	13.7
11-16	13-18	1.3	0.5	0.1	0.5	0.8	2.3	3.8	3.1	2.8	2.3	2.3	1.8	21.6
17-21	19-24	1.1	0.4	0+	0.6	0.4	3.0	5.1	2.7	2.6	3.2	1.8	1.8	22.7
22-27	25-31	1.0	0.2	0.1	0.2	0.1	3.1	3.0	1.9	2.5	2.3	1.3	1.2	16.9
28-33	32-38	0.4	0.1	0+	0.1	0.2	0.3	0.8	1.3	2.0	1.7	0.8	0.4	8.1
34-40	39-46	0.2	0.1			0.1	0.2	0.1	0.5	0.7	0.2	0.3	0.1	2.5
41-47	47-54	0.1	0+						0+	0.1	0+	0.1	0+	0.3
48-55	55-63	0.1												0.1
56-63	64-72													
>63	>72													
TOTAL		6.2	2.2	0.8	2.4	2.8	10.9	15.9	12.2	12.7	10.9	8.8	7.7	100.1
		Percentage number of hours missed												0
		NOVEMBER												
Calm														4.7
1-3	1-3													5.3
4-6	4-7	1.1	0.1	0.2	0.3	0.3	0.3	0.5	1.3	0.8	0.7	0.7	1.3	7.6
7-10	8-12	1.9	0.7	0.3	0.5	0.6	0.9	1.1	2.0	1.4	1.1	1.5	1.6	13.6
11-16	13-18	2.1	0.9	0.6	0.5	1.3	1.1	2.0	2.3	2.0	1.9	2.2	2.2	19.1
17-21	19-24	1.2	0.4	0.6	0.4	1.6	2.1	3.1	2.0	1.9	2.3	2.1	1.7	19.4
22-27	25-31	1.0	0.1	0.6	0.3	1.9	2.3	2.7	1.7	1.6	2.4	1.9	1.5	18.0
28-33	32-38	0.3	0.1	0.1	0+	1.5	1.4	1.7	0.5	0.8	1.0	0.9	0.5	8.8
34-40	39-46	0+				0.5	0.3	0.1	0.4	0.4	0.8	0.4	0.1	3.0
41-47	47-54					0+	0+		0+	0+	0.2	0.2	0+	0.4
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		7.6	2.3	2.4	2.0	7.7	8.4	11.2	10.2	8.9	10.4	9.9	8.9	99.9
		Percentage number of hours missed												0.2

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

LERWICK *(contd)*

Mean wind speed		Percentage number of hours with winds from												All directions
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	Total
		DECEMBER												
Calm														3.6
1-3	1-3													4.3
4-6	4-7	1.0	0.3	0.1	0.1	0.1	0.1	0.4	0.8	0.5	0.6	0.8	1.4	6.2
7-10	8-12	1.7	0.7	0.3	0.2	0.3	0.6	1.4	1.9	1.2	1.1	1.5	1.9	12.8
11-16	13-18	1.8	0.6	0.4	0.5	0.5	1.9	2.1	2.5	2.1	1.4	1.9	2.4	18.1
17-21	19-24	2.1	1.1	1.2	0.5	0.9	1.9	1.9	2.1	2.7	1.7	1.7	1.9	19.7
22-27	25-31	1.3	0.8	0.2	0.6	1.0	2.2	2.2	1.6	2.4	1.4	1.3	0.9	15.9
28-33	32-38	0.4	0.2	0.1	0.6	1.6	2.0	1.5	2.0	2.3	1.3	0.9	0.5	13.4
34-40	39-46	0.1	0.2		0+	0.6	1.0	0.6	0.8	0.8	0.5	0.4	0.1	5.1
41-47	47-54						0+	0+	0.1	0.2	0.2	0.2		0.7
48-55	55-63								0.1	0.1	0.1	0+		0.3
56-63	64-72									0+				0+
>63	>72													
TOTAL		8.4	3.9	2.3	2.5	5.0	9.7	10.1	11.9	12.3	8.3	8,7	9.1	100.1
Percentage number of hours missed														0.1
		YEAR												
Calm														3.5
1-3	1-3													6.4
4-6	4-7	1.0	0.6	0.5	0.6	0.7	1.1	1.1	0.9	0.7	0.8	0.9	1.1	10.0
7-10	8-12	1.6	1.3	0.8	0.7	1.1	1.8	2.0	1.5	1.4	1.5	1.8	2.1	17.6
11-16	13-18	2.2	1.4	0.8	0.7	1.2	2.2	2.7	2.0	2.3	2.1	2.1	2.5	22.2
17-21	19-24	1.8	1.2	0.7	0.5	0.8	1.5	2.3	1.7	2.4	2.1	1.8	1.8	18.6
22-27	25-31	1.1	0.7	0.3	0.3	0.6	1.3	1.5	1.3	2.0	1.6	1.2	0.9	12.8
28-33	32-38	0.4	0.2	0.1	0.1	0.5	0.8	0.8	0.7	1.1	1.0	0.5	0.3	6.5
34-40	39-46	0.1	0.1	0+	0+	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.1	2.1
41-47	47-54	0.2	0+	0+	0+	0+	0+	0+	0+	0.1	0.1	0+	0+	0.4
48-55	55-63	0+	0+					0+	0+	0+	0+	0+	0+	0+
56-63	64-72	0+	0+						0+	0+			0+	0+
>63	>72	0+												0+
TOTAL		8.4	5.5	3.2	2.9	5.1	9.0	10.7	8.4	10.3	9.4	8.5	8.8	100.1
Percentage number of hours missed														0+

TABLE X — PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

STORNOWAY (58° 12′N, 06° 22′W) 1954-63

Height of vane:	
above MSL	120′
above ground	40′
above building	26′
effective height	36′

The site was on the eastern side of the Isle of Lewis with the open sea to the south and east. To the west-north-west there was a hill 740 ft high about 6 miles away. Although there were mountains 1500-2000 ft high to the south-west they were 20-30 miles away.

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		JANUARY												
Calm														5.0
1-3	1-3													4.7
4-6	4-7	0.4	0.1	0.3	0.2	0.2	0.2	0.2	0.5	0.7	0.7	0.7	0.7	4.9
7-10	8-12	1.0	0.2	0.4	0.6	0.4	0.4	0.5	1.3	1.8	1.3	1.0	1.5	10.4
11-16	13-18	2.4	1.0	1.1	2.0	1.9	1.5	1.7	4.3	3.9	2.4	1.8	2.8	26.8
17-21	19-24	1.6	0.5	1.2	1.4	1.5	1.2	2.4	2.5	2.1	1.0	0.8	1.2	17.4
22-27	25-31	0.9	0.3	0.7	0.8	1.3	1.0	2.8	2.2	2.1	1.0	0.8	1.0	14.9
28-33	32-38	0.3	0.2	0.2	0.3	0.4	0.8	2.7	1.4	1.2	0.6	0.4	0.3	8.8
34-40	39-46	0.1	0.1	0.2	0.2	0+	0.5	2.1	1.2	0.5	0.3	0.1	0.1	5.4
41-47	47-54	0+			0+		0.1	0.6	0.5	0.1	0+	0+	0+	1.3
48-55	55-63						0.1	0.2	0+	0+	0+			0.3
56-63	64-72								0+	0+				0+
>63	>72													
TOTAL		6.7	2.4	4.1	5.5	5.7	5.8	13.2	13.9	12.4	7.3	5.6	7.6	99.9
													Percentage number of hours missed	0
		FEBRUARY												
Calm														4.7
1-3	1-3													5.9
4-6	4-7	0.4	0.2	0.2	0.3	0.5	0.2	0.3	0.9	0.7	0.4	0.6	0.5	5.2
7-10	8-12	0.9	0.4	0.8	0.6	0.7	0.6	1.0	1.9	1.3	0.9	0.8	1.4	11.3
11-16	13-18	2.2	1.0	1.8	2.2	1.6	1.1	2.8	3.5	2.0	1.3	1.1	1.6	22.2
17-21	19-24	1.7	0.9	1.2	1.3	1.4	1.2	2.6	2.7	1.6	1.2	0.6	0.9	17.3
22-27	25-31	1.1	0.5	0.5	1.7	1.3	0.9	2.2	2.9	1.4	0.9	0.5	0.7	14.6
28-33	32-38	0.7	0.2	0.1	1.1	0.4	0.3	3.0	1.9	1.0	0.7	0.5	0.5	10.4
34-40	39-46	0.3			0.3	0.2	0.2	2.3	1.3	0.8	0.3	0.2	0.1	6.0
41-47	47-54				0+		0+	0.7	0.5	0.2	0.1		0+	1.5
48-55	55-63							0.2	0.1	0.1	0.3	0.2		0.9
56-63	64-72									0+	0.1	0+		0.1
>63	>72													
TOTAL		7.3	3.2	4.6	7.5	6.1	4.5	15.1	15.7	9.1	6.2	4.5	5.7	100.1
													Percentage number of hours missed	0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

STORNOWAY *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
								MARCH						
Calm														5.8
1-3	1-3													5.0
4-6	4-7	0.3	0.3	0.4	0.6	1.3	0.8	0.7	0.5	0.5	0.3	0.2	0.4	6.3
7-10	8-12	0.9	0.6	1.3	1.7	1.9	1.8	1.4	1.0	1.1	1.1	0.7	0.8	14.3
11-16	13-18	2.0	1.2	2.1	2.8	4.2	2.4	2.6	2.9	1.6	2.1	1.4	1.0	26.3
17-21	19-24	1.2	0.6	0.7	1.9	2.1	1.8	2.9	2.5	1.6	1.3	1.1	0.7	18.4
22-27	25-31	0.7	0.5	0.4	1.8	1.3	1.3	3.3	1.8	1.0	0.9	0.6	0.7	14.3
28-33	32-38	0.3	0.2	0.5	1.2	0.8	0.4	1.9	1.0	0.3	0.3	0.2	0.3	7.4
34-40	39-46	0+	0.1	0.1	0.1	0.1	0+	0.7	0.6	0.1	0.1	0.1		2.0
41-47	47-54	0+						0.1	0.1		0+	0+		0.2
48-55	55-63											0+		0+
56-63	64-72													
>63	>72													
TOTAL		5.4	3.5	5.5	10.1	11.7	8.5	13.6	10.4	6.2	6.1	4.3	3.9	100.0
Percentage number of hours missed														0
								APRIL						
Calm														6.3
1-3	1-3													8.3
4-6	4-7	0.9	0.7	0.7	0.7	1.1	0.8	0.5	0.7	0.4	0.6	0.8	0.8	8.7
7-10	8-12	1.4	1.4	1.7	1.3	1.4	1.6	1.9	1.6	1.3	0.9	1.2	1.3	17.0
11-16	13-18	2.1	2.4	2.3	2.1	1.1	1.9	4.0	3.5	2.6	2.2	2.0	1.4	27.6
17-21	19-24	0.9	0.8	0.8	1.6	0.6	0.6	3.3	2.3	1.8	1.9	1.2	0.7	16.5
22-27	25-31	0.2	0.5	0.3	0.5	0.3	0.5	2.8	2.5	1.4	1.3	0.6	0.2	11.1
28-33	32-38	0+	0.1	0+	0.2	0.1	0.1	1.1	0.9	0.4	0.4	0.4	0+	3.7
34-40	39-46		0+		0+		0+	0.2	0.1	0.1	0.2	0.1		0.7
41-47	47-54								0+		0+			0+
48-55	55-63										0+			0+
56-63	64-72													
>63	>72													
TOTAL		5.5	5.9	5.8	6.4	4.6	5.5	13.8	11.6	8.0	7.5	6.3	4.4	99.9
Percentage number of hours missed														0
								MAY						
Calm														5.5
1-3	1-3													12.0
4-6	4-7	1.0	1.2	1.4	0.9	1.2	1.4	0.6	0.7	0.4	0.5	0.6	1.2	11.1
7-10	8-12	1.7	2.0	1.9	1.2	1.5	1.4	1.8	1.1	1.3	1.2	1.3	1.9	18.3
11-16	13-18	2.8	3.9	2.2	1.8	1.6	1.3	2.6	2.6	2.1	2.4	2.2	2.4	27.9
17-21	19-24	1.0	1.5	1.0	0.5	0.4	0.5	1.6	1.6	1.2	1.3	1.1	0.9	12.6
22-27	25-31	0.5	0.2	0.4	0.5	0.1	0.4	1.6	0.9	1.2	1.0	0.5	0.5	7.8
28-33	32-38	0.1	0.5	0.2	0+	0+	0.2	0.9	0.4	0.3	0.5	0.1	0.2	3.4
34-40	39-46		0.1				0.3	0.5	0.1	0+	0+	0.1		1.1
41-47	47-54						0+					0.1		0.1
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		7.1	9.4	7.1	4.9	4.8	5.5	9.6	7.4	6.5	6.9	6.0	7.1	99.8
Percentage number of hours missed														0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

STORNOWAY *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
		JUNE												
Calm														5.4
1-3	1-3													10.6
4-6	4-7	0.6	0.9	1.1	0.8	0.9	0.9	0.7	0.5	0.7	0.6	0.7	0.9	9.3
7-10	8-12	1.5	1.8	2.1	1.0	0.9	1.7	1.4	1.5	1.5	1.2	1.4	1.6	17.6
11-16	13-18	1.9	3.0	2.6	1.3	0.8	2.0	3.8	3.2	2.7	2.4	1.7	2.4	27.8
17-21	19-24	1.8	2.2	1.4	0.5	0.2	0.3	2.4	2.3	2.1	1.5	1.3	1.2	17.2
22-27	25-31	0.7	0.9	0.9	0.4	0+	0.1	1.3	1.6	1.8	1.2	0.5	0.4	9.8
28-33	32-38	0+	0.3	0.1	0+		0+	0.4	0.6	0.3	0.3		0.1	2.1
34-40	39-46						0+	0+	0.1	0+	0+			0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.5	9.1	8.2	4.0	2.8	5.0	10.0	9.8	9.1	7.2	5.6	6.6	99.9
													Percentage number of hours missed	0
		JULY												
Calm														7.4
1-3	1-3													10.8
4-6	4-7	0.9	1.1	0.9	0.8	0.9	0.8	0.8	0.7	0.9	0.6	0.8	1.2	10.4
7-10	8-12	1.8	2.6	1.5	0.6	0.7	1.3	2.2	2.0	2.1	1.2	1.7	2.0	19.7
11-16	13-18	2.6	4.7	1.5	0.7	0.4	1.3	4.2	3.7	3.2	2.6	2.8	2.8	30.5
17-21	19-24	1.1	2.8	0.7	0.4	0.2	0.5	2.1	2.7	1.4	0.9	0.8	0.7	14.3
22-27	25-31	0.6	0.5	0.1	0.1	0.1	0.2	1.2	1.3	0.7	0.4	0.4	0.5	6.1
28-33	32-38	0+	0+				0+	0.2	0.2	0.1	0.1	0+	0+	0.6
34-40	39-46							0+						0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		7.0	11.7	4.7	2.6	2.3	4.1	10.7	10.6	8.4	5.8	6.5	7.2	99.8
													Percentage number of hours missed	0
		AUGUST												
Calm														8.7
1-3	1-3													12.8
4-6	4-7	1.0	1.2	0.8	0.6	0.6	1.2	0.7	1.1	0.8	0.7	1.3	1.5	11.5
7-10	8-12	2.3	2.1	1.6	1.0	0.9	1.2	1.9	2.0	2.0	1.7	1.5	1.7	19.9
11-16	13-18	2.6	3.2	2.0	1.1	0.7	1.3	3.1	2.8	2.9	2.7	2.1	1.4	25.9
17-21	19-24	0.7	1.4	1.0	0.4	0.2	0.5	2.0	1.3	1.0	1.1	1.0	0.7	11.3
22-27	25-31	0.3	1.0	0.2	0.2	0.2	0.2	1.2	0.9	0.6	0.6	0.5	0.4	6.3
28-33	32-38	0+	0.2	0+		0+	0.1	0.9	0.8	0.3	0.2	0.2	0.1	2.8
34-40	39-46							0.2	0.3	0.1	0.1			0.7
41-47	47-54								0.1	0+	0.1			0.2
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.9	9.1	5.6	3.3	2.6	4.5	10.0	9.3	7.7	7.2	6.6	5.8	100.1
													Percentage number of hours missed	0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

STORNOWAY *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		SEPTEMBER												
Calm														6.1
1-3	1-3													6.0
4-6	4-7	0.6	0.4	0.3	0.4	0.6	0.8	0.5	0.8	0.6	0.5	0.3	0.5	6.3
7-10	8-12	0.9	0.7	1.0	0.9	1.2	1.1	1.5	1.8	1.7	1.4	1.2	1.1	14.5
11-16	13-18	2.0	1.5	1.7	1.8	1.6	2.5	3.4	4.0	3.1	2.6	1.6	1.8	27.6
17-21	19-24	1.1	0.6	0.8	1.0	0.6	1.5	3.9	3.4	1.9	1.6	1.0	0.7	18.1
22-27	25-31	0.8	0.2	0.2	0.3	0.3	0.7	3.4	2.7	2.1	1.3	0.7	1.1	13.8
28-33	32-38				0+	0.1	0.3	2.2	1.3	0.6	0.3	0.1	0.3	5.2
34-40	39-46						0.2	0.9	0.3	0.3	0.1	0+	0+	1.8
41-47	47-54						0.1	0.2	0+	0.1	0+	0+		0.4
48-55	55-63						0+	0+		0+				0+
56-63	64-72													
>63	>72													
TOTAL		5.4	3.4	4.0	4.4	4.4	7.2	16.0	14.3	10.4	7.8	4.9	5.5	99.8
													Percentage number of hours missed	0
		OCTOBER												
Calm														4.3
1-3	1-3													5.0
4-6	4-7	0.1	0.2	0.2	0.2	0.4	0.5	0.6	1.0	0.8	0.7	0.5	0.3	5.5
7-10	8-12	0.7	0.2	0.4	0.5	0.8	0.9	1.5	2.1	2.1	1.4	0.8	1.0	12.4
11-16	13-18	1.6	0.5	0.9	0.8	1.9	1.5	2.5	4.6	4.6	2.5	1.7	2.5	25.6
17-21	19-24	1.3	0.2	1.2	0.8	0.6	1.2	1.8	5.0	3.9	2.1	0.8	1.0	19.9
22-27	25-31	1.2	0.1	0.6	1.0	0.3	0.7	2.3	4.4	2.3	1.7	0.5	0.8	15.9
28-33	32-38	0.5	0+	0.2	0.2	0.1	0.2	1.5	2.7	1.0	0.7	0.3	0.4	7.8
34-40	39-46	0.3	0+		0.1	0+	0+	0.9	1.1	0.4	0.1	0+	0.1	3.0
41-47	47-54	0+	0+			0+	0+	0.1	0.2	0.1				0.4
48-55	55-63						0+	0.1	0+	0+				0.1
56-63	64-72							0+						0+
>63	>72													
TOTAL		5.7	1.2	3.5	3.6	4.1	5.0	11.3	21.1	15.2	9.2	4.6	6.1	99.9
													Percentage number of hours missed	0
		NOVEMBER												
Calm														6.8
1-3	1-3													5.8
4-6	4-7	0.6	0.1	0.2	0.2	0.3	0.3	0.3	1.1	1.1	0.7	0.9	1.3	7.1
7-10	8-12	1.5	0.2	0.3	0.4	0.6	0.7	1.2	3.3	2.2	1.5	1.5	1.1	14.5
11-16	13-18	1.9	0.4	0.9	1.2	1.3	1.8	3.1	5.1	4.5	2.0	1.7	1.5	25.4
17-21	19-24	1.2	0.5	0.8	1.1	1.3	1.4	3.0	2.8	2.0	1.4	1.1	0.6	17.2
22-27	25-31	0.4	0.4	0.8	1.0	1.1	1.7	2.8	1.8	1.2	0.5	0.6	0.4	12.7
28-33	32-38	0.3	0.4	0.2	0.5	0.5	0.9	2.5	0.7	0.5	0.3	0.3	0.1	7.2
34-40	39-46		0.1	0.2	0.2	0+	0.5	1.2	0.2	0+	0.2	0.2	0+	2.8
41-47	47-54						0.1	0.3	0.1		0.1			0.6
48-55	55-63							0.1			0+	0+		0.1
56-63	64-72													
>63	>72													
TOTAL		5.9	2.1	3.4	4.6	5.1	7.4	14.5	15.1	11.5	6.7	6.3	5.0	100.2
													Percentage number of hours missed	0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

STORNOWAY *(contd)*

Mean wind speed		Percentage number of hours with winds from												All directions
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	Total
		DECEMBER												
Calm														3.8
1-3	1-3													2.8
4-6	4-7	0.6	0.1	0.3	0.3	0.2	0.1	0.2	0.6	0.6	0.7	0.6	0.7	5.0
7-10	8-12	1.3	0.5	0.3	0.5	0.6	0.3	0.7	1.9	1.6	1.2	0.9	1.1	10.9
11-16	13-18	1.4	0.7	1.1	1.4	1.8	0.9	2.3	4.0	2.8	2.6	1.9	1.5	22.4
17-21	19-24	0.8	0.5	1.2	2.1	2.0	1.2	2.2	2.7	2.1	1.4	1.2	0.7	18.1
22-27	25-31	0.6	0.7	1.0	1.8	1.3	1.1	2.4	3.7	2.2	1.0	1.0	0.4	17.2
28-33	32-38	0.4	0.4	0.6	0.9	0.4	1.1	2.1	2.4	1.2	0.7	0.6	0.3	11.1
34-40	39-46	0.1	0+	0.3	0.4	0.1	0.5	1.7	1.3	0.9	0.6	0.4	0.1	6.4
41-47	47-54	0+		0.1	0+	0.1	0.1	0.7	0.2	0.1	0.2	0.1		1.6
48-55	55-63						0.1	0.3		0.1	0.1			0.6
56-63	64-72							0.1	0+	0+				0.1
>63	>72								0+					0+
TOTAL		5.2	2.9	4.9	7.4	6.5	5.4	12.7	16.8	11.6	8.5	6.7	4.8	100.0
		Percentage number of hours missed												0
		YEAR												
Calm														5.8
1-3	1-3													7.5
4-6	4-7	0.6	0.5	0.6	0.5	0.7	0.7	0.5	0.8	0.7	0.6	0.7	0.8	7.7
7-10	8-12	1.3	1.1	1.1	0.9	1.0	1.1	1.4	1.8	1.7	1.2	1.2	1.4	15.2
11-16	13-18	2.1	2.0	1.7	1.6	1.6	1.6	3.0	3.7	3.0	2.3	1.8	1.9	26.3
17-21	19-24	1.2	1.0	1.0	1.1	0.9	1.0	2.5	2.6	1.9	1.4	1.0	0.8	16.4
22-27	25-31	0.7	0.5	0.5	0.8	0.6	0.7	2.3	2.2	1.5	1.0	0.6	0.6	12.0
28-33	32-38	0.2	0.2	0.2	0.4	0.2	0.4	1.6	1.2	0.6	0.4	0.3	0.2	5.9
34-40	39-46	0.1	0+	0.1	0.1	0+	0.2	0.9	0.6	0.3	0.2	0.1	0+	2.6
41-47	47-54	0+	0+	0+	0+	0+	0+	0.2	0.1	0+	0.1	0+	0+	0.4
48-55	55-63						0+	0.1	0+	0+	0+	0+		0.1
56-63	64-72							0+	0+	0+	0+	0+		0+
>63	>72								0+					0+
TOTAL		6.2	5.3	5.2	5.4	5.0	5.7	12.5	13.0	9.7	7.2	5.7	5.7	99.9
		Percentage number of hours missed												0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

DYCE (57° 12′N, 02° 12′W) 1952-59

Height of vane

above MSL	225′
above ground	40′
above building	30′
effective height	40′

The anemometer was on an open site on the eastern edge of Dyce airfield. Buildings to the east-south-east and south-east probably affected winds from these directions but otherwise there were no obstructions.

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							JANUARY							
Calm														11.6
1-3	1-3													11.7
4-6	4-7	0.5	0.1	0.1	0.3	0.3	1.2	1.6	1.6	2.0	1.6	1.1	1.4	11.8
7-10	8-12	1.1	0.1	0.1	0.7	0.3	0.9	2.6	2.6	2.6	3.2	3.8	3.1	21.1
11-16	13-18	0.9	0.1	0.1	0.3	1.0	1.3	3.3	3.2	1.6	3.3	7.0	3.8	25.9
17-21	19-24	0.5			0+	0.3	1.0	1.9	1.0	0.5	1.3	3.8	1.7	12.0
22-27	25-31	0.2					0.3	1.0	0.5	0.2	0.4	1.3	0.4	4.3
28-33	32-38	0+					0.1	0.3	0.3	0.1	0.1	0.2	0.1	1.2
34-40	39-46	0.1							0+		0+	0.2	0+	0.3
41-47	47-54	0+										0+	0+	0+
48-55	55-63	0.1											0+	0.1
56-63	64-72													
>63	>72													
TOTAL		3.4	0.3	0.3	1.3	1.9	4.8	10.7	9.2	7.0	9.9	17.4	10.5	100.0
													Percentage number of hours missed	0
							FEBRUARY							
Calm														12.9
1-3	1-3													15.7
4-6	4-7	1.4	0.6	0.2	0.5	1.0	1.4	1.5	1.2	1.2	1.8	1.9	2.0	14.7
7-10	8-12	1.8	0.4	0.2	0.6	1.2	2.3	2.0	1.9	1.9	1.7	3.8	3.3	21.1
11-16	13-18	1.1	0.6	0.3	0.3	1.7	1.4	3.0	2.6	1.2	1.6	5.3	5.0	24.1
17-21	19-24	1.3	0+	0.1	0.2	0.3	0.6	1.0	1.2	0.5	0.2	1.1	1.4	7.9
22-27	25-31	0.4				0+	0.2	0.4	0.5	0.1	0.1	0.7	0.5	2.9
28-33	32-38						0.1	0.1	0.2	0+	0.1	0.1	0+	0.6
34-40	39-46							0.1	0.1	0+		0+	0+	0.2
41-47	47-54								0+					0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.0	1.6	0.8	1.6	4.2	6.0	8.1	7.7	4.9	5.5	12.9	12.2	100.1
													Percentage number of hours missed	0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

DYCE *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							MARCH							
Calm														11.4
1-3	1-3													17.9
4-6	4-7	1.2	0.2	0.3	1.1	1.6	2.8	2.5	1.1	0.8	0.9	1.1	1.5	15.1
7-10	8-12	1.3	0.5	0.1	0.7	1.6	4.5	4.2	1.9	1.2	1.3	2.0	1.9	21.2
11-16	13-18	0.7	0.5	0.1	1.1	2.1	6.6	4.9	2.2	1.4	1.7	2.5	1.8	25.6
17-21	19-24	0.1	0.1	0.2	0.1	0.3	0.9	1.3	0.6	0.2	0.7	1.2	0.7	6.4
22-27	25-31	0+					0.1	0.5	0.1	0.2	0.2	0.9	0.1	2.1
28-33	32-38							0.1			0+	0.1		0.2
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.3	1.3	0.7	3.0	5.6	14.9	13.5	5.9	3.8	4.8	7.8	6.0	99.9
							Percentage number of hours missed							0
							APRIL							
Calm														14.6
1-3	1-3													18.3
4-6	4-7	1.3	0.5	0.3	0.9	1.9	1.6	2.0	1.4	1.6	1.6	1.5	1.6	16.2
7-10	8-12	1.4	0.9	0.3	0.2	0.7	2.4	3.8	1.9	1.5	2.3	3.3	3.3	22.0
11-16	13-18	1.5	0.4	0.4	0.1	0.1	2.0	4.8	2.5	1.3	2.2	3.2	3.5	22.0
17-21	19-24	0.4	0+				0.3	1.1	0.9	0.4	0.4	1.2	1.0	5.7
22-27	25-31	0+					0.2	0.1	0+	0+	0.1	0.4	0.2	1.0
28-33	32-38	0.1						0.1				0+	0.1	0.3
34-40	39-46							0+						0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.7	1.8	1.0	1.2	2.7	6.5	11.9	6.7	4.8	6.6	9.6	9.7	100.1
							Percentage number of hours missed							0
							MAY							
Calm														11.1
1-3	1-3													22.0
4-6	4-7	1.0	0.7	0.8	2.6	3.8	2.5	1.1	0.8	0.9	1.1	1.0	2.1	18.4
7-10	8-12	1.9	0.4	0.5	0.8	3.0	3.2	1.7	1.3	1.0	1.7	1.8	3.8	21.1
11-16	13-18	1.5	0+	0.2	0.2	0.8	2.6	3.0	1.3	0.7	1.5	3.9	4.7	20.4
17-21	19-24	0.2	0.1	0+		0+	0.3	0.4	0.5	0.4	0.4	1.7	1.4	5.4
22-27	25-31	0.1	0+					0.1	0.2	0.2	0.1	0.4	0.4	1.5
28-33	32-38	0+								0+			0+	0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.7	1.2	1.5	3.6	7.6	8.6	6.3	4.1	3.2	4.8	8.8	12.4	99.9
							Percentage number of hours missed							0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

DYCE *(contd)*

Mean wind speed knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-210°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							JUNE							
Calm														15.7
1-3	1-3													25.3
4-6	4-7	1.7	0.3	0.6	2.0	2.9	3.4	1.7	1.0	0.7	0.9	1.2	2.1	18.5
7-10	8-12	1.9	0.5	0.5	0.4	1.4	3.5	2.8	1.5	0.7	1.4	2.2	3.2	20.0
11-16	13-18	1.1	0.1	0.2	0.2	0.1	1.5	2.6	1.5	0.9	1.1	2.5	4.1	15.9
17-21	19-24	0.2					0.2	0.3	0.3	0.4	0.5	0.8	1.3	4.0
22-27	25-31							0.1	0.1	0.1	0+	0.1	0.1	0.5
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.9	0.9	1.3	2.6	4.4	8.6	7.5	4.4	2.8	3.9	6.8	10.8	99.9
Percentage number of hours missed														0
							JULY							
Calm														18.6
1-3	1-3													27.4
4-6	4-7	1.3	0.2	0.7	1.3	2.3	2.7	1.9	1.0	0.9	1.3	2.2	3.3	19.1
7-10	8-12	2.0	0.2	0.6	1.0	0.8	2.9	2.6	1.7	0.9	0.9	2.5	4.2	20.3
11-16	13-18	0.3	0+		0.1	0+	0.8	1.5	1.4	0.7	0.8	3.1	3.7	12.4
17-21	19-24	0+					0+	0.1	0.1	0.1	0.2	0.9	0.7	2.1
22-27	25-31											0.2	0+	0.2
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.6	0.4	1.3	2.4	3.1	6.4	6.1	4.2	2.6	3.2	8.9	11.9	100.1
Percentage number of hours missed														0
							AUGUST							
Calm														18.9
1-3	1-3													27.8
4-6	4-7	1.5	0.5	0.8	0.8	1.6	3.3	2.0	0.9	1.4	1.6	2.3	2.1	18.8
7-10	8-12	1.6	0.3	0.7	0.6	1.1	2.9	2.0	1.3	1.0	1.3	3.2	3.9	19.9
11-16	13-18	0.4	0.1	0+	0+	0.3	1.2	1.6	1.3	0.6	0.7	2.2	3.1	11.5
17-21	19-24	0.2				0+	0.3	0.5	0.4	0.1	0.4	0.3	0.6	2.8
22-27	25-31	0+					0+	0.1		0.1	0.1	0+	0+	0.3
28-33	32-38										0.1	0+		0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.7	0.9	1.5	1.4	3.0	7.7	6.2	3.9	3.2	4.2	8.0	9.7	100.1
Percentage number of hours missed														0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

DYCE *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							SEPTEMBER							
Calm														13.5
1-3	1-3													21.1
4-6	4-7	0.9	0.7	0.1	0.8	1.3	1.9	2.6	1.6	1.6	1.6	1.5	2.1	16.7
7-10	8-12	0.6	0.3	0.3	0.4	1.5	2.7	3.8	2.6	1.8	1.9	3.0	2.7	21.6
11-16	13-18	0.7				0.2	2.8	2.3	2.6	1.2	2.1	3.9	3.2	19.0
17-21	19-24	0.1					0.5	0.6	0.7	0.4	0.8	1.7	1.1	5.9
22-27	25-31						0+	0.2	0.2	0.1	0.2	0.7	0.4	1.8
28-33	32-38							0.1	0+		0+	0.1	0+	0.2
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.3	1.0	0.4	1.2	3.0	7.9	9.6	7.7	5.1	6.6	10.9	9.5	99.8
Percentage number of hours missed														0.1
							OCTOBER							
Calm														10.0
1-3	1-3													17.9
4-6	4-7	0.5	0.1	0.2	0.3	0.5	1.4	2.5	2.5	2.5	1.9	1.6	1.5	15.5
7-10	8-12	1.2	0.1	0+	0.4	1.2	2.1	3.8	4.0	2.7	3.0	3.0	2.3	23.8
11-16	13-18	0.6			0+	0.6	2.7	3.0	4.4	2.0	2.8	4.6	3.3	24.0
17-21	19-24	0.1				0.3	1.1	0.6	1.2	0.5	0.7	1.1	0.9	6.5
22-27	25-31	0+				0+	0.3	0.2	0.2	0+	0.2	0.4	0.4	1.7
28-33	32-38	0+					0+	0.2	0.1	0+	0+	0+	0.3	0.6
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.4	0.2	0.2	0.7	2.6	7.6	10.3	12.4	7.7	8.6	10.7	8.7	100.0
Percentage number of hours missed														0
							NOVEMBER							
Calm														13.5
1-3	1-3													20.4
4-6	4-7	0.3	0+	0.1	0.3	0.7	1.2	2.8	2.1	1.9	2.2	1.6	1.5	14.7
7-10	8-12	0.2	0.1	0.1	0.3	0.5	1.7	3.3	3.0	2.3	2.9	3.8	2.6	20.8
11-16	13-18	0.2	0.1	0.3	0.4	0.9	1.7	3.9	2.4	1.1	2.4	4.4	3.0	20.8
17-21	19-24	0+		0+	0.2	0.2	0.8	1.6	0.8	0.2	0.7	1.2	0.9	6.6
22-27	25-31					0.1	0.3	0.9	0.5	0.2	0.5	0.3	0.2	3.0
28-33	32-38						0.1	0.1	0.1	0+	0+	0+		0.3
34-40	39-46						0+							0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		0.7	0.2	0.5	1.2	2.4	5.8	12.6	8.9	5.7	8.7	11.3	8.2	100.1
Percentage number of hours missed														0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

DYCE *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		DECEMBER												
Calm														11.3
1-3	1-3													15.0
4-6	4-7	0.7	0.3	0.1	0.3	0.4	0.8	2.3	2.0	2.0	1.5	1.1	1.0	12.5
7-10	8-12	0.6	0.3	0.4	0.4	0.8	1.0	4.0	2.5	3.1	3.5	3.8	1.8	22.2
11-16	13-18	0.2	0+	0.6	0.8	1.6	2.1	3.2	4.5	2.4	2.6	4.6	1.4	24.0
17-21	19-24	0.1		0.2	0.3	1.5	1.1	1.4	2.2	0.8	0.5	1.7	0.5	10.3
22-27	25-31			0+	0+	0.2	0.4	0.6	0.9	0.2	0.2	0.8	0.4	3.7
28-33	32-38						0+	0+	0.2	0+	0.1	0.2	0.1	0.6
34-40	39-46								0+			0.1		0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.6	0.6	1.3	1.8	4.5	5.4	11.5	12.3	8.5	8.4	12.3	5.2	99.7
Percentage number of hours missed														0.3
		YEAR												
Calm														13.6
1-3	1-3													20.1
4-6	4-7	1.0	0.4	0.3	0.9	1.5	2.0	2.0	1.4	1.5	1.5	1.5	1.9	15.9
7-10	8-12	1.3	0.3	0.3	0.5	1.2	2.5	3.1	2.2	1.7	2.1	3.0	3.0	21.2
11-16	13-18	0.8	0.2	0.2	0.3	0.8	2.2	3.1	2.5	1.3	1.9	3.9	3.4	20.6
17-21	19-24	0.3	0+	0+	0.1	0.2	0.6	0.9	0.8	0.4	0.6	1.4	1.0	6.3
22-27	25-31	0.1	0+	0+	0+	0+	0.1	0.3	0.3	0.1	0.2	0.5	0.3	1.9
28-33	32-38	0+					0+	0.1	0.1	0+	0+	0.1	0.1	0.4
34-40	39-46	0+					0+	0+	0+	0+	0+	0+	0+	0+
41-47	47-54	0+							0+			0+	0+	0+
48-55	55-63	0+											0+	0+
56-63	64-72													
>63	>72													
TOTAL		3.5	0.9	0.8	1.8	3.7	7.4	9.5	7.3	5.0	6.3	10.4	9.7	100.0
Percentage number of hours missed														0+

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

BELL ROCK (56° 26′N, 02° 24′W) 1950-54, 1958-59

Height of vane:	
above MSL	128′
above ground	131′
above building	15′
effective height	124′

The anemometer was installed 15 ft above the lighthouse dome, and as the lighthouse was to the east of the Firth of Tay, 12 miles from land, exposure was excellent in all directions.

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							JANUARY							
Calm														0.6
1-3	1-3													3.6
4-6	4-7	0.4	0.4	0.2	0.1	0+	0.1	0.2	0.6	0.9	0.6	0.9	0.5	4.9
7-10	8-12	1.0	0.6	0.3	0.2	0.5	0.4	0.7	1.5	2.1	2.1	2.2	1.3	12.9
11-16	13-18	1.5	0.8	0.6	0.2	0.6	0.7	1.3	2.9	3.6	5.0	5.2	1.7	24.1
17-21	19-24	1.6	1.0	0.2	0.1	0.3	0.3	2.1	1.5	2.3	3.8	4.6	1.6	19.4
22-27	25-31	1.1	1.3	0.3	0+	0.1	0.5	2.1	1.2	2.4	3.3	2.7	1.6	16.6
28-33	32-38	0.4	0.7	0.3	0.1	0.3	1.1	2.0	0.6	1.2	2.7	1.1	0.5	11.0
34-40	39-46	0.2	0.2	0.2			0.3	0.5	0.6	0.6	1.1	0.9	0.2	4.8
41-47	47-54	0+	0.1	0+			0.1	0.1	0.3	0.1	0.2	0.4	0+	1.3
48-55	55-63	0+	0.1						0+			0+	0+	0.1
56-63	64-72	0.1												0.1
>63	>72													
TOTAL		6.3	5.2	2.1	0.7	1.8	3.5	9.0	9.2	13.2	18.8	18.0	7.4	99.4
													Percentage number of hours missed	0.7
							FEBRUARY							
Calm														1.4
1-3	1-3													6.4
4-6	4-7	0.4	0.4	0.3	0.4	0.2	0.4	0.4	0.7	1.1	1.1	0.8	1.0	7.2
7-10	8-12	0.4	0.4	0.3	0.9	0.9	1.1	1.4	0.9	1.6	2.2	1.6	1.0	12.7
11-16	13-18	1.5	1.2	0.6	0.5	1.0	0.6	1.7	1.8	4.0	4.8	4.3	1.8	23.8
17-21	19-24	1.3	1.6	0.7	0.3	0.5	0.6	1.3	1.6	3.0	4.2	2.4	1.6	19.1
22-27	25-31	1.4	1.1	0.5	0.2	0.3	1.1	0.7	1.6	2.8	3.6	1.6	1.2	16.1
28-33	32-38	0.2	0.7	0.3	0.3	0.3	0.7	0.7	0.5	1.5	1.4	0.7	0.2	7.5
34-40	39-46	0+	0.4	0.4	0.1	0.2	0.3	0.5	0+	0.7	0.7	0.2		3.5
41-47	47-54		0.2	0+			0.4	0.1		0.1	0.4	0.1	0+	1.3
48-55	55-63						0.1	0.1		0+	0.1	0+		0.3
56-63	64-72													
>63	>72													
TOTAL		5.2	6.0	3.1	2.7	3.4	5.3	6.9	7.1	14.8	18.5	11.7	6.8	99.3
													Percentage number of hours missed	0.9

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

BELL ROCK *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°–010°	020°–040°	050°–070°	080°–100°	110°–130°	140°–160°	170°–190°	200°–220°	230°–250°	260°–280°	290°–310°	320°–340°	All directions Total
							MARCH							
Calm														2.0
1-3	1-3													6.6
4-6	4-7	0.1	0.3	0.5	0.7	0.8	1.0	0.7	0.8	1.1	0.9	0.6	0.4	7.9
7-10	8-12	0.8	0.5	1.2	1.5	1.4	1.9	1.9	2.3	1.6	2.7	1.4	0.5	17.7
11-16	13-18	1.0	0.8	1.3	2.1	1.8	1.9	3.1	2.8	2.6	3.5	2.9	1.3	25.1
17-21	19-24	0.7	0.6	1.2	1.0	0.8	2.0	2.1	1.9	2.0	2.2	2.0	1.4	17.9
22-27	25-31	0.8	0.5	0.5	1.4	0.9	2.4	1.5	0.8	1.4	2.4	1.1	0.7	14.4
28-33	32-38	0.3	0.4	0.2	0.7	0.4	0.5	0.5	0.2	0.4	1.2	0.7	0.2	5.7
34-40	39-46	0+	0.1	0.3	0.1	0+	0.1	0.4	0.1	0.2	0.4	0.1	0+	1.8
41-47	47-54			0.2	0.1					0+	0.2			0.5
48-55	55-63			0+										0+
56-63	64-72													
>63	>72													
TOTAL		3.7	3.2	5.4	7.6	6.1	9.8	10.2	8.9	9.3	13.5	8.8	4.5	99.6
													Percentage number of hours missed	0.4
							APRIL							
Calm														2.5
1-3	1-3													8.2
4-6	4-7	0.6	0.7	0.5	0.7	0.7	0.9	1.0	1.0	1.1	1.1	0.6	0.4	9.3
7-10	8-12	0.8	1.0	0.8	1.3	1.4	1.3	1.9	2.0	1.8	1.8	1.6	1.1	16.8
11-16	13-18	1.6	1.4	1.2	1.3	1.0	1.0	2.6	3.1	3.7	4.5	2.7	1.2	25.3
17-21	19-24	1.8	1.0	1.3	0.8	0.5	0.3	1.4	1.5	2.6	4.0	2.0	1.1	18.3
22-27	25-31	0.9	0.8	0.9	0.2	0.2	0.1	0.9	1.5	1.1	3.0	1.7	0.7	12.0
28-33	32-38	0.3	0.4	0.4	0+			0.4	0.5	0.7	1.1	0.6	0.1	4.5
34-40	39-46	0.2	0.3	0.1	0+			0.1		0.5	0.7	0.2	0.1	2.2
41-47	47-54	0+	0+	0+	0+					0.1	0.3	0.1		0.5
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.2	5.6	5.2	4.3	3.8	3.6	8.3	9.6	11.6	16.5	9.5	4.7	99.6
													Percentage number of hours missed	0.4
							MAY							
Calm														3.1
1-3	1-3													12.5
4-6	4-7	0.5	1.1	1.3	2.0	1.4	1.2	0.9	0.8	0.6	0.6	0.4	0.4	11.2
7-10	8-12	0.5	1.0	2.4	2.5	2.6	1.8	1.2	0.7	0.8	0.9	0.9	0.3	15.6
11-16	13-18	0.5	1.8	3.6	4.6	2.8	2.3	2.2	1.9	1.3	2.1	1.7	0.9	25.7
17-21	19-24	0.5	1.2	3.3	2.1	0.8	1.4	1.3	0.8	1.1	1.8	2.1	0.7	17.1
22-27	25-31	0.5	0.6	1.9	0.7	0.3	0.7	1.4	0.6	0.3	1.0	1.3	0.4	9.7
28-33	32-38	0.3	0.2	1.7	0.2		0.2	0.6	0.2	0.1	0.1	0.3	0.2	4.1
34-40	39-46	0+	0.1	0.5				0+		0+	0.1	0+		0.7
41-47	47-54		0+	0+						0.1				0.1
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.8	6.0	14.7	12.1	7.9	7.6	7.6	5.0	4.3	6.6	6.7	2.9	99.8
													Percentage number of hours missed	0+

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

BELL ROCK *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							JUNE							
Calm														3.5
1-3	1-3													14.0
4-6	4-7	0.4	0.6	1.8	1.7	1.5	1.5	0.9	1.0	0.5	0.4	0.3	0.3	10.9
7-10	8-12	0.5	0.9	2.9	3.1	2.0	1.6	1.6	1.6	1.3	1.1	0.7	0.7	18.0
11-16	13-18	1.0	1.2	3.1	3.5	1.2	0.9	1.7	3.2	3.7	2.9	1.5	1.1	25.0
17-21	19-24	0.4	0.9	1.6	0.8	0.5	0.8	1.2	2.5	2.9	2.5	1.6	0.5	16.2
22-27	25-31	0.2	1.2	0.8	0.3	0.1	0.3	0.4	1.4	1.4	1.8	1.2	0.3	9.4
28-33	32-38	0+	0.3	0.2	0.1		0.2	0.1	0.3	0.3	0.4	0.3	0.1	2.3
34-40	39-46		0.2	0.3	0+				0.1	0+		0+		0.6
41-47	47-54			0+										0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.5	5.3	10.7	9.5	5.3	5.3	5.9	10.1	10.1	9.1	5.6	3.0	99.9
Percentage number of hours missed														0.1
							JULY							
Calm														2.6
1-3	1-3													9.1
4-6	4-7	0.5	0.6	0.6	1.0	0.8	1.0	1.5	1.1	1.3	0.8	0.8	0.8	10.8
7-10	8-12	0.8	0.8	1.1	1.4	1.5	1.8	2.2	2.2	2.2	1.9	1.1	0.8	17.8
11-16	13-18	0.9	1.3	1.6	0.8	1.3	1.9	3.2	3.7	4.6	4.6	3.5	1.3	28.7
17-21	19-24	0.4	1.2	0.6	0.2	0.3	0.4	1.3	1.7	2.0	5.2	2.8	0.7	16.8
22-27	25-31	0.2	0.6	0.2		0+	0.7	0.5	0.3	0.5	3.2	1.8	0.1	8.1
28-33	32-38			0+		0.1	0.1		0.1	0.1	0.3	0.1	0+	0.8
34-40	39-46					0+								0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.8	4.5	4.1	3.4	4.0	5.9	8.7	9.1	10.7	16.0	10.1	3.7	94.7
Percentage number of hours missed														5.3
							AUGUST							
Calm														3.2
1-3	1-3													9.8
4-6	4-7	0.6	0.8	0.5	0.8	1.2	0.9	1.6	1.4	1.0	1.2	0.8	0.5	11.3
7-10	8-12	0.6	0.6	1.0	1.1	1.7	2.2	2.6	2.1	2.1	2.3	1.7	0.7	18.7
11-16	13-18	0.5	0.9	1.1	1.4	1.7	2.4	3.7	3.9	3.2	4.6	3.6	0.9	27.9
17-21	19-24	0+	0.6	1.0	0.8	0.6	0.9	1.5	2.2	2.0	3.1	1.9	0.4	15.0
22-27	25-31		0.9	0.7	0.2	0.2	0.9	0.9	1.5	1.2	1.9	1.1	0.3	9.8
28-33	32-38		0.7	0.3	0.1		0.2	0.1	0.4	0.2	0.6	0.3	0+	2.9
34-40	39-46		0.5	0.2	0+		0+	0+	0.1		0.2	0.2		1.2
41-47	47-54											0+		0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.7	5.0	4.8	4.4	5.4	7.5	10.4	11.6	9.7	13.9	9.6	2.8	99.8
Percentage number of hours missed														0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

BELL ROCK *(contd)*

Mean wind speed knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		SEPTEMBER												
Calm														2.4
1-3	1-3													8.3
4-6	4-7	0.4	0.4	0.2	0.5	1.0	0.8	0.7	0.9	0.7	0.5	0.2	0.5	6.8
7-10	8-12	0.8	0.4	0.3	0.5	0.9	0.9	1.7	2.1	1.8	1.3	0.6	0.8	12.1
11-16	13-18	1.3	1.2	0.9	1.5	1.5	1.8	3.1	2.5	3.7	3.4	2.0	1.4	24.3
17-21	19-24	1.1	1.1	1.7	0.7	0.6	1.8	2.4	1.9	2.3	3.4	1.7	1.2	19.9
22-27	25-31	0.4	0.3	0.6	0.4	0.3	1.0	1.9	1.2	1.7	2.2	1.8	0.9	12.7
28-33	32-38	0.1	0+	0.3			0.3	0.6	0.3	0.7	2.4	1.1	0.4	6.2
34-40	39-46	0+	0.2	0.1			0.2	0.1	0.1	0.4	1.1	0.3	0.1	2.6
41-47	47-54		0.2				0.1			0.1	0.3	0.2	0+	0.9
48-55	55-63		0+									0+		0+
56-63	64-72													
>63	>72													
TOTAL		4.1	3.8	4.1	3.6	4.3	6.9	10.5	9.0	11.4	14.6	7.9	5.3	96.2
		Percentage number of hours missed												3.8
		OCTOBER												
Calm														0.5
1-3	1-3													4.2
4-6	4-7	0.2	0.1	0.3	0.5	0.5	0.4	0.4	0.6	0.8	0.9	0.7	0.4	5.8
7-10	8-12	0.3	0.1	0.5	0.6	0.7	1.0	0.7	1.3	1.8	2.1	1.3	1.0	11.4
11-16	13-18	1.0	1.2	1.3	1.3	1.4	1.3	1.7	3.6	3.9	5.2	2.5	2.1	26.5
17-21	19-24	0.5	0.5	0.6	0.8	0.7	1.4	2.4	3.4	3.2	3.5	2.1	1.0	20.1
22-27	25-31	0.2	0.4	0.2	0.3	0.7	1.5	3.0	2.7	2.7	5.1	1.6	0.3	18.7
28-33	32-38		0.7	0.3	0.1	0.2	0.5	1.1	1.0	1.3	2.6	0.8	0+	8.6
34-40	39-46		0.2	0.2	0+	0.1	0.2	0.3	0.4	0.5	1.1	0.3	0+	3.3
41-47	47-54							0.1	0.1	0.2	0.2	0+		0.6
48-55	55-63							0+	0.1	0+		0+		0.1
56-63	64-72													
>63	>72													
TOTAL		2.2	3.2	3.4	3.6	4.3	6.3	9.7	13.2	14.4	20.7	9.3	4.8	99.8
		Percentage number of hours missed												0.1
		NOVEMBER												
Calm														0.9
1-3	1-3													5.5
4-6	4-7	0.4	0.3	0.2	0.3	0.2	0.1	0.5	0.5	0.4	0.8	1.1	0.8	5.6
7-10	8-12	0.9	0.5	0.3	0.4	0.3	0.7	1.2	0.5	1.0	2.1	1.6	1.2	10.7
11-16	13-18	1.9	1.5	0.8	0.5	1.5	2.6	2.3	2.2	2.5	3.8	4.0	1.7	25.3
17-21	19-24	1.7	1.5	0.9	0.7	1.2	1.4	2.0	2.4	2.1	3.8	3.0	0.9	21.6
22-27	25-31	0.9	0.8	0.2	0.7	1.0	0.6	1.4	1.2	1.0	2.6	2.2	0.5	13.1
28-33	32-38	0.4	0.4	0.4	0.6	0.3	0.3	1.0	1.5	1.0	2.1	1.3	0.1	9.4
34-40	39-46	0+	0.6	0.5	0.1	0.1	0.5	0.6	0.2	0.4	1.6	1.5	0+	6.1
41-47	47-54		0.1	0.1	0+		0.6	0.1	0.2	0+	0.3	0.3		1.7
48-55	55-63							0+			0+	0+		0+
56-63	64-72											0+		0+
>63	>72													
TOTAL		6.2	5.7	3.4	3.3	4.6	6.8	9.1	8.7	8.4	17.1	15.0	5.2	99.9
		Percentage number of hours missed												0.2

F

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

BELL ROCK *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
								DECEMBER						
Calm														0.2
1-3	1-3													2.8
4-6	4-7	0.3	0.1	0.1	0.2	0.1	0.2	0.3	0.4	1.1	0.7	0.5	0.5	4.5
7-10	8-12	0.6	0.4	0.2	0.2	0.3	0.4	0.5	0.7	1.3	2.4	2.5	1.2	10.7
11-16	13-18	1.0	0.9	0.4	0.7	0.9	1.1	1.2	1.6	2.6	5.2	4.7	2.7	23.0
17-21	19-24	0.6	0.9	0.5	0.6	0.9	1.0	2.2	2.0	2.4	3.9	3.7	2.0	20.7
22-27	25-31	0.4	0.9	0.9	1.4	0.8	1.1	1.3	2.3	3.1	3.5	2.1	1.9	19.7
28-33	32-38	0.6	0.3	0.5	0.8	0.4	0.4	1.1	0.9	1.7	2.1	0.7	0.8	10.3
34-40	39-46	0.2	0.2	0.7	0.3	0.2	0.1	0.4	0.4	0.4	1.6	0.8	0.4	5.7
41-47	47-54	0.1	0+	0.4	0.2	0.2		0.3	0.1	0.1	0.4	0.2	0.1	2.1
48-55	55-63				0.2	0+		0+		0+	0.1	0+		0.3
56-63	64-72				0+						0.1	0+		0.1
>63	>72										0.1			0.1
TOTAL		3.8	3.7	3.7	4.6	3.8	4.3	7.3	8.4	12.7	20.1	15.2	9.6	100.2
											Percentage number of hours missed			0
								YEAR						
Calm														1.9
1-3	1-3													7.6
4-6	4-7	0.4	0.5	0.5	0.7	0.7	0.7	0.8	0.8	0.9	0.8	0.6	0.5	7.9
7-10	8-12	0.7	0.6	0.9	1.2	1.2	1.3	1.5	1.5	1.6	1.9	1.4	0.9	14.7
11-16	13-18	1.2	1.2	1.4	1.6	1.4	1.6	2.3	2.8	3.3	4.1	3.2	1.5	25.6
17-21	19-24	0.9	1.0	1.1	0.7	0.6	1.0	1.8	2.0	2.3	3.4	2.5	1.1	18.4
22-27	25-31	0.6	0.8	0.6	0.5	0.4	0.9	1.3	1.4	1.6	2.8	1.7	0.7	13.3
28-33	32-38	0.2	0.4	0.4	0.2	0.2	0.4	0.7	0.5	0.8	1.4	0.7	0.2	6.1
34-40	39-46	0.1	0.2	0.3	0.1	0+	0.1	0.2	0.2	0.3	0.7	0.4	0.1	2.7
41-47	47-54	0+	0+	0.1	0+	0+	0.1	0.1	0.1	0.1	0.2	0.1	0+	0.8
48-55	55-63	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+
56-63	64-72	0+			0+						0+	0+		0+
>63	>72										0+			0+
TOTAL		4.1	4.7	5.3	5.0	4.5	6.1	8.7	9.3	10.9	15.3	10.6	5.0	99.0
											Percentage number of hours missed			1.0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

LEUCHARS (56° 23′N, 02° 52′W) 1951-59

Height of vane:

above MSL	79′
above ground	41′
above building	34′
effective height	41′

The anemometer was well exposed on an open site, the only obstructions being the Control Tower which was due north, and hangars to the north-east.

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							JANUARY							
Calm														4.0
1-3	1-3													22.9
4-6	4-7	0.9	0.6	0.3	0.2	0.6	1.1	0.7	1.0	5.7	7.1	2.0	1.4	21.6
7-10	8-12	1.2	0.5	0.2	0.4	0.9	1.1	0.9	1.4	5.3	5.8	1.8	1.2	20.7
11-16	13-18	0.6	0.1	0.5	0.6	0.5	1.1	0.5	1.2	4.5	4.2	2.7	1.1	17.6
17-21	19-24	0.1	0+	0.4	0.4	0.3	0.2	0.1	0.4	2.0	2.0	1.1	0.1	7.1
22-27	25-31	0.1	0+	0.2	0.4	0.4	0.1	0+	0.3	1.0	1.0	0.5	0+	4.0
28-33	32-38	0+						0+	0.1	0.3	0.1	0+	0.1	0.6
34-40	39-46								0+	0+	0+			0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.9	1.2	1.6	2.0	2.7	3.6	2.2	4.4	18.8	20.2	8.1	3.9	98.5
									Percentage number of hours missed					1.6
							FEBRUARY							
Calm														6.0
1-3	1-3													23.3
4-6	4-7	1.4	1.3	0.8	0.4	0.8	1.0	0.4	1.2	3.9	5.7	2.0	1.4	20.3
7-10	8-12	2.1	1.4	0.9	0.9	1.1	0.6	0.6	1.4	5.2	4.2	2.3	1.9	22.6
11-16	13-18	1.2	0.9	0.6	1.4	1.3	0.8	0.3	1.1	4.0	3.2	1.5	1.2	17.5
17-21	19-24	0.3	0.1	0.5	0.4	0.6	0.3	0.1	0.5	1.9	1.6	0.5	0.3	7.1
22-27	25-31	0.1		0.1	0.1	0.5	0.1	0.1	0.1	0.7	0.6	0.1	0+	2.5
28-33	32-38		0+	0+	0+	0.1	0.1		0.1	0.1	0.1	0+	0+	0.5
34-40	39-46								0.1					0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.1	3.7	2.9	3.2	4.4	2.9	1.5	4.5	15.8	15.4	6.4	4.8	99.9
									Percentage number of hours missed					0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

LEUCHARS *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		MARCH												
Calm														3.7
1-3	1-3													26.0
4-6	4-7	0.6	0.9	1.7	2.7	2.3	1.1	1.0	0.9	2.2	3.4	1.7	0.6	19.1
7-10	8-12	0.7	1.0	2.0	3.6	3.4	1.5	0.7	1.1	2.7	3.4	1.5	0.6	22.2
11-16	13-18	0.6	1.1	2.1	3.4	2.4	1.4	0.4	1.0	4.0	2.9	1.0	0.8	21.1
17-21	19-24	0+	0.2	0.8	0.6	0.5	0.5	0.1	0.2	1.3	1.6	0.5	0.3	6.6
22-27	25-31				0.1	0.1	0.1	0+	0+	0.4	0.3	0.1	0+	1.1
28-33	32-38									0.1	0.1	0+		0.2
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.9	3.2	6.6	10.4	8.7	4.6	2.2	3.2	10.7	11.7	4.8	2.3	100.0
Percentage number of hours missed														0.1
		APRIL												
Calm														3.2
1-3	1-3													25.1
4-6	4-7	1.3	1.2	1.4	2.3	2.3	0.8	0.7	1.4	3.8	3.7	1.4	1.0	21.3
7-10	8-12	1.2	1.3	1.3	2.6	2.3	0.9	0.7	2.0	4.9	3.4	1.7	1.1	23.4
11-16	13-18	0.8	1.0	1.2	1.0	0.8	0.3	0.5	1.8	4.3	4.4	1.5	1.0	18.6
17-21	19-24	0.2	0.2	0.6	0.2	0+	0.2	0.2	0.5	1.8	2.1	0.3	0.2	6.5
22-27	25-31			0.2					0.1	0.5	0.6	0.2	0+	1.6
28-33	32-38									0.1	0.2	0+		0.3
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.5	3.7	4.7	6.1	5.4	2.2	2.1	5.8	15.4	14.4	5.1	3.3	100.0
Percentage number of hours missed														0
		MAY												
Calm														2.2
1-3	1-3													21.2
4-6	4-7	0.4	1.1	2.7	4.0	3.1	0.9	0.3	0.9	2.6	2.6	1.4	0.6	20.6
7-10	8-12	0.5	1.2	3.0	5.7	4.0	1.1	0.7	1.8	2.9	3.0	1.9	1.1	26.9
11-16	13-18	0.5	1.7	3.2	3.0	2.1	0.9	0.4	1.3	2.7	3.2	1.7	1.2	21.9
17-21	19-24	0.3	0.3	1.0	0.4	0.2	0.3	0+	0.5	1.0	0.9	0.5	0.2	5.6
22-27	25-31	0+	0+	0.4	0+		0+	0+	0+	0.3	0.4	0.1	0.1	1.3
28-33	32-38									0.1	0+			0.1
34-40	39-46									0+	0+			0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.7	4.3	10.3	13.1	9.4	3.2	1.4	4.5	9.6	10.1	5.6	3.2	99.8
Percentage number of hours missed														0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

LEUCHARS *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							JUNE							
Calm														1.4
1-3	1-3													25.3
4-6	4-7	0.4	1.5	2.9	4.7	3.6	0.8	0.5	1.1	3.8	2.9	1.3	0.5	24.0
7-10	8-12	0.6	1.0	3.3	6.3	3.0	0.6	0.5	1.3	4.2	3.7	2.0	0.6	27.1
11-16	13-18	0.5	0.8	2.0	1.9	1.0	0.2	0.3	1.4	4.5	2.6	1.5	0.5	17.2
17-21	19-24	0.2	0.1	0.6	0.2		0+	0.1	0.2	1.3	1.1	0.3	0+	4.1
22-27	25-31			0.1	0+			0+	0+	0.4	0.2			0.7
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.7	3.4	8.9	13.1	7.6	1.6	1.4	4.0	14.2	10.5	5.1	1.6	99.8
									Percentage number of hours missed					0
							JULY							
Calm														1.7
1-3	1-3													28.0
4-6	4-7	0.3	1.3	1.8	2.0	2.2	1.0	0.7	1.4	4.2	5.0	1.8	1.0	22.7
7-10	8-12	0.4	1.1	2.0	3.0	1.8	0.7	0.6	1.8	4.7	6.7	1.8	0.6	25.2
11-16	13-18	0.4	1.5	1.3	1.4	0.5	0.3	0.4	1.5	3.9	5.2	1.7	0.2	18.3
17-21	19-24		0.2	0.2	0+	0+	0+	0+	0.2	1.0	1.4	0.4		3.4
22-27	25-31		0+						0+	0.2	0.1	0.1		0.4
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.1	4.1	5.3	6.4	4.5	2.0	1.7	4.9	14.0	18.4	5.8	1.8	99.7
									Percentage number of hours missed					0.4
							AUGUST							
Calm														3.2
1-3	1-3													30.1
4-6	4-7	0.8	1.6	2.1	3.1	2.0	0.9	0.7	1.6	4.0	4.0	1.7	0.8	23.3
7-10	8-12	0.7	1.7	2.2	2.8	1.8	0.8	0.8	1.8	4.7	4.6	1.5	0.7	24.1
11-16	13-18	0.3	0.5	0.9	1.5	0.5	0.1	0.2	1.6	4.1	3.5	0.8	0.4	14.4
17-21	19-24	0+	0.1	0.3	0.1	0.1	0.1	0.1	0.6	1.4	1.1	0.1	0.1	4.1
22-27	25-31	0+		0+		0+		0+	0.1	0.4	0.2		0.1	0.8
28-33	32-38					0+		0+		0.1	0.1	0+		0.2
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.8	3.9	5.5	7.5	4.4	1.9	1.8	5.7	14.7	13.5	4.1	2.1	100.2
									Percentage number of hours missed					0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

LEUCHARS *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		SEPTEMBER												
Calm														2.7
1-3	1-3													25.6
4-6	4-7	0.6	1.1	1.4	1.4	1.3	1.0	0.6	1.3	3.6	3.9	1.5	0.8	18.5
7-10	8-12	0.4	1.3	2.0	2.0	1.2	1.4	1.1	1.9	5.3	4.8	2.1	1.0	24.5
11-16	13-18	0.2	0.7	1.8	1.7	1.0	1.6	0.5	1.3	4.8	5.4	2.2	0.6	21.8
17-21	19-24	0.1	0.1	0.2	0.2	0.1	0+	0.1	0.3	1.5	1.5	1.0	0.2	5.3
22-27	25-31								0.2	0.5	0.6	0.1		1.4
28-33	32-38								0+	0.1		0+		0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.3	3.2	5.4	5.3	3.6	4.0	2.3	5.0	15.8	16.2	6.9	2.6	99.9
		Percentage number of hours missed												0
		OCTOBER												
Calm														0.8
1-3	1-3													21.1
4-6	4-7	0.6	0.3	0.2	0.7	1.0	0.9	0.7	1.8	6.0	4.6	1.3	0.6	18.7
7-10	8-12	0.7	0.9	0.6	1.0	1.2	1.1	0.8	2.7	8.0	5.0	2.0	0.9	24.9
11-16	13-18	0.5	1.0	0.6	0.7	1.3	1.8	1.0	2.9	8.0	4.2	1.4	1.1	24.5
17-21	19-24	0+	0+	0+	0.1	0.3	0.7	0.2	0.9	2.8	1.8	0.4	0.4	7.6
22-27	25-31	0+				0.1	0.2	0.1	0.2	0.9	0.2	0.1	0.2	2.0
28-33	32-38					0+		0+	0+	0.2	0+	0+		0.2
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.8	2.2	1.4	2.5	3.9	4.7	2.8	8.5	25.9	15.8	5.2	3.2	99.8
		Percentage number of hours missed												0
		NOVEMBER												
Calm														1.9
1-3	1-3													24.3
4-6	4-7	0.9	0.8	0.6	0.6	1.1	0.9	0.8	1.5	6.2	4.8	1.7	1.1	21.0
7-10	8-12	0.5	1.2	0.5	0.6	1.3	1.4	1.1	2.4	7.3	4.8	1.9	1.1	24.1
11-16	13-18	0.2	0.4	0.6	0.6	1.0	1.4	1.5	1.8	5.4	3.1	1.3	1.0	18.3
17-21	19-24	0+	0.1	0.1	0.2	0.7	0.4	0.4	0.8	1.3	1.2	0.8	0.3	6.3
22-27	25-31	0+	0.1	0+	0.2	0.2	0.2	0.1	0.3	0.6	0.6	0.3	0.1	2.7
28-33	32-38			0.1	0.2	0.3	0.4	0+	0+	0.1	0.2			1.3
34-40	39-46				0+	0+				0+	0+			0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.6	2.6	1.9	2.4	4.6	4.7	3.9	6.8	20.9	14.7	6.0	3.6	99.9
		Percentage number of hours missed												0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

LEUCHARS *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							DECEMBER							
Calm														2.6
1-3	1-3													21.7
4-6	4-7	0.5	0.3	0.2	0.2	0.8	0.8	0.5	0.9	5.2	5.7	2.4	0.7	18.2
7-10	8-12	0.6	0.9	0.3	0.4	1.1	1.0	0.7	1.8	6.0	4.3	1.8	0.5	19.4
11-16	13-18	0.3	0.8	0.6	0.6	1.2	0.8	0.7	2.6	6.3	3.6	0.9	0.3	18.7
17-21	19-24	0.1	0+	0.5	0.7	0.8	0.3	0.3	1.7	3.8	2.0	0.5	0.2	10.9
22-27	25-31		0+	0.5	0.3	0.6	0.2	0.1	0.5	2.4	1.2	0.3	0+	6.1
28-33	32-38		0+	0.1	0+	0.4	0+	0+	0.2	0.8	0.3	0+	0+	1.8
34-40	39-46			0.1		0.3	0.1		0+	0.1	0+	0.1	0+	0.7
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.5	2.0	2.3	2.2	5.2	3.2	2.3	7.7	24.6	17.1	6.0	1.7	100.1
													Percentage number of hours missed	0
							YEAR							
Calm														2.7
1-3	1-3													24.6
4-6	4-7	0.7	1.0	1.3	1.8	1.8	0.9	0.6	1.2	4.3	4.6	1.7	0.9	20.8
7-10	8-12	0.8	1.1	1.5	2.4	1.9	1.0	0.8	1.8	5.1	4.5	1.9	0.9	23.7
11-16	13-18	0.5	0.9	1.3	1.5	1.1	0.9	0.6	1.6	4.7	3.8	1.5	0.8	19.2
17-21	19-24	0.1	0.1	0.4	0.3	0.3	0.3	0.2	0.6	1.8	1.5	0.5	0.2	6.3
22-27	25-31	0+	0+	0.1	0.1	0.2	0.1	0+	0.2	0.7	0.5	0.2	0+	2.1
28-33	32-38	0+	0+	0+	0+	0.1	0+	0+	0+	0.2	0.1	0+	0+	0.4
34-40	39-46			0+	0+	0+	0+		0+	0+	0+	0+	0+	0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.1	3.1	4.6	6.1	5.4	3.2	2.2	5.4	16.8	15.0	5.8	2.8	99.8
													Percentage number of hours missed	0.2

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

TIREE (56° 30′N, 06° 53′W) 1950-59

Height of vane:	1950-56	1957-59
above MSL	75′	89′
above ground	50′	60′
above building	42′	-
effective height	42′	47′

From 1950 to 1956 the site was in the north of the island, which lies some 25 miles from the west coast of Scotland with the open Atlantic to the north-west, west and south-west. The island is completely without trees or hedges and there were no buildings within a distance to cause obstruction, hence the exposure was excellent in all directions.

In 1957-59 the site was 2¼ miles south-south-east of the old site with the anemometer situated 30 yards south of a building 26 feet high. The only other building higher than 10 feet was a hut 14 feet high, 50 yards to the north-west.

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							JANUARY							
Calm														2.4
1-3	1-3													4.5
4-6	4-7	0.7	0.3	0.6	0.6	0.3	0.4	0.6	0.5	0.4	0.3	0.5	0.5	5.7
7-10	8-12	1.0	0.8	1.3	0.6	0.7	0.8	0.9	1.5	1.0	1.2	1.2	1.2	12.2
11-16	13-18	2.8	1.2	1.4	0.7	1.0	1.2	3.0	3.7	3.3	2.8	2.6	3.1	26.8
17-21	19-24	2.6	0.7	0.4	0.3	1.1	1.4	3.2	2.4	2.0	1.7	1.5	1.3	18.6
22-27	25-31	1.5	0.3	0+	0.2	0.9	2.4	3.7	1.5	1.7	2.0	1.5	2.0	17.7
28-33	32-38	0.5	0+		0.2	0.4	1.0	1.2	0.8	0.4	0.4	0.4	0.7	6.0
34-40	39-46	0.3				0.2	1.4	0.5	0.6	0.2	0.2	0.3	0.4	4.1
41-47	47-54					0+	0.1	0+	0.1	0+	0+	0.1	0.2	0.5
48-55	55-63									0+	0+		0+	0+
56-63	64-72								0+	0+				0+
>63	>72													
TOTAL		9.4	3.3	3.7	2.6	4.6	8.7	13.1	11.1	9.0	8.6	8.1	9.4	98.5
										Percentage number of hours missed				1.3
							FEBRUARY							
Calm														2.9
1-3	1-3													4.8
4-6	4-7	1.1	0.8	1.3	0.3	0.5	0.5	0.6	0.7	0.7	0.8	0.5	0.6	8.4
7-10	8-12	1.9	1.2	2.0	0.6	1.0	0.9	1.8	2.1	1.8	1.3	0.9	1.2	16.7
11-16	13-18	3.6	2.3	1.6	1.1	2.1	2.7	2.8	2.9	3.4	2.0	1.9	2.9	29.3
17-21	19-24	2.9	0.9	0.3	0.3	1.2	2.7	1.8	2.1	1.7	1.5	0.9	1.0	17.3
22-27	25-31	1.6	0.2	0.1	0.1	1.5	2.0	2.5	1.2	0.8	0.9	0.6	0.5	12.0
28-33	32-38	0.7	0+		0.1	0.7	1.5	1.3	0.8	0.1	0.3	0.2	0.1	5.8
34-40	39-46	0.2			0+	0.6	0.4	0.4	0.2	0.2	0.1			2.1
41-47	47-54					0.1	0.1	0.1		0.1		0+		0.4
48-55	55-63								0+	0+	0+	0+		0+
56-63	64-72								0+	0+				0+
>63	>72													
TOTAL		12.0	5.4	5.3	2.5	7.7	10.8	11.3	10.0	8.8	6.9	5.0	6.3	99.7
										Percentage number of hours missed				0.1

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

TIREE *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350°–010°	020°–040°	050°–070°	080°–100°	110°–130°	140°–160°	170°–190°	200°–220°	230°–250°	260°–280°	290°–310°	320°–340°	All directions Total
							MARCH							
Calm														1.5
1-3	1-3													3.9
4-6	4-7	0.8	0.6	0.6	0.6	0.5	0.8	0.9	0.6	0.5	0.8	0.9	0.3	7.9
7-10	8-12	1.4	0.8	0.7	1.0	2.1	2.7	2.4	1.6	0.9	1.5	1.3	1.2	17.6
11-16	13-18	2.6	1.4	1.4	2.3	4.9	5.2	4.2	3.3	1.7	1.9	1.7	1.5	32.1
17-21	19-24	1.2	0.9	0.8	1.1	3.9	3.6	2.3	1.6	0.8	0.7	0.9	0.3	18.1
22-27	25-31	0.9	0.7	0.2	0.7	3.1	2.6	1.8	1.1	0.3	0.4	0.6	0.5	12.9
28-33	32-38	0.2	0.1	0.1	0+	0.8	1.0	0.3	0.1	0.2	0.2	0.1	0.3	3.4
34-40	39-46		0.1			0.1	0.7	0+		0+	0+	0.1		1.0
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		7.1	4.6	3.8	5.7	15.4	16.6	11.9	8.3	4.4	5.5	5.6	4.1	98.4
													Percentage number of hours missed	1.7
							APRIL							
Calm														3.1
1-3	1-3													8.1
4-6	4-7	2.2	0.7	0.3	0.3	0.7	0.8	0.9	0.9	0.9	0.7	1.2	0.9	10.5
7-10	8-12	3.6	1.2	0.6	0.3	1.3	1.7	2.1	1.5	1.7	1.6	1.5	1.7	18.8
11-16	13-18	5.1	1.2	0.5	0.4	1.5	2.5	3.3	4.0	2.8	2.7	2.8	2.6	29.4
17-21	19-24	2.9	0.8	0.1	0.2	1.1	1.5	2.2	2.9	1.6	1.7	1.6	0.8	17.4
22-27	25-31	1.2	0.4		0+	0.5	1.4	1.1	1.0	0.9	0.6	0.8	0.7	8.6
28-33	32-38	0.4	0+			0.1	0.3	0.1	0.1	0.3	0+	0.3	0.2	1.8
34-40	39-46	0+					0.1	0+		0+	0.1	0.2	0+	0.4
41-47	47-54						0+	0+	0+					0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		15.4	4.3	1.5	1.2	5.2	8.3	9.7	10.4	8.2	7.4	8.4	6.9	98.1
													Percentage number of hours missed	1.8
							MAY							
Calm														4.4
1-3	1-3													10.8
4-6	4-7	2.4	1.2	0.8	0.7	1.4	1.4	1.0	0.4	0.6	0.8	1.3	1.3	13.3
7-10	8-12	3.4	1.6	1.2	0.9	1.7	2.3	1.9	1.0	1.1	1.2	1.9	2.1	20.3
11-16	13-18	5.5	2.4	1.1	1.6	3.3	4.4	1.9	1.7	1.6	2.2	2.9	3.3	31.9
17-21	19-24	2.0	0.6	0.3	0.6	1.7	2.2	1.0	1.1	0.6	1.0	1.1	1.5	13.7
22-27	25-31	0.6	0.3	0.2	0.2	0.4	0.6	0.6	0.4	0.3	0.2	0.2	0.5	4.5
28-33	32-38	0.2	0.1		0+	0+		0+	0.2	0.1	0.1			0.7
34-40	39-46	0.4							0.1		0+			0.5
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		14.5	6.2	3.6	4.0	8.5	10.9	6.4	4.9	4.3	5.5	7.4	8.7	100.1
													Percentage number of hours missed	0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

TIREE *(contd)*

Mean wind speed knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		Percentage number of hours with winds from												
		JUNE												
Calm														4.8
1-3	1-3													13.2
4-6	4-7	1.8	0.5	0.5	0.5	1.0	1.0	1.3	1.3	1.2	1.1	1.4	2.1	13.7
7-10	8-12	3.2	1.0	0.9	0.7	1.9	2.4	3.1	2.2	1.7	1.7	2.0	2.7	23.5
11-16	13-18	3.9	0.7	0.6	0.5	2.7	3.0	3.7	4.0	2.1	1.7	2.3	2.8	28.0
17-21	19-24	2.6	0.4	0.2	0.1	0.7	1.3	1.2	1.3	0.9	0.6	0.8	1.3	11.4
22-27	25-31	1.6	0.3	0.1	0.1	0.3	0.2	0.3	0.7	0.6	0.4	0.1	0.2	4.9
28-33	32-38	0.2					0+		0.1	0+	0.1		0+	0.4
34-40	39-46							0+						0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		13.3	2.9	2.3	1.9	6.6	7.9	9.6	9.6	6.5	5.6	6.6	9.1	99.9
		Percentage number of hours missed												0
		JULY												
Calm														4.7
1-3	1-3													13.1
4-6	4-7	1.7	0.8	0.4	0.5	0.8	1.1	1.3	1.3	1.9	1.5	1.5	2.2	15.0
7-10	8-12	2.7	1.2	0.3	0.4	1.2	1.7	2.6	2.6	3.3	3.1	3.2	2.9	25.2
11-16	13-18	4.0	1.1	0.3	0.2	0.8	1.6	2.8	3.3	4.8	3.7	2.9	3.3	28.8
17-21	19-24	2.1	0.3	0.1	0+	0.4	0.8	0.9	1.4	1.3	0.6	0.3	1.2	9.4
22-27	25-31	0.9	0+			0+	0.3	0.2	0.2	0.1	0.1	0.3	0.6	2.7
28-33	32-38	0.1					0.1		0.1	0.1	0.1	0.2	0.2	0.9
34-40	39-46									0+	0.1			0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		11.5	3.4	1.1	1.1	3.2	5.6	7.8	8.9	11.5	9.2	8.4	10.4	99.9
		Percentage number of hours missed												0.1
		AUGUST												
Calm														5.0
1-3	1-3													12.1
4-6	4-7	1.5	0.6	0.8	0.5	0.8	1.2	1.8	1.4	0.9	1.3	1.4	1.1	13.3
7-10	8-12	3.3	1.5	0.7	0.7	1.5	2.0	2.9	2.1	1.9	2.1	2.5	2.0	23.2
11-16	13-18	3.8	1.1	0.5	0.4	2.4	2.6	3.7	2.8	4.2	2.5	2.0	2.2	28.2
17-21	19-24	1.3	0.7	0.1	0.1	0.6	1.3	1.4	1.1	1.7	1.1	0.6	0.3	10.3
22-27	25-31	1.0	0.1		0.1	0.3	0.9	0.9	1.0	1.0	0.3	0.1	0.4	6.1
28-33	32-38	0.1			0+	0.1	0+	0.1	0.3	0.2	0.1		0+	0.9
34-40	39-46	0.2				0.1	0.1	0+	0.1		0.1	0+	0+	0.6
41-47	47-54	0.1												0.1
48-55	55-63	0+												0+
56-63	64-72													
>63	>72													
TOTAL		11.3	4.0	2.1	1.8	5.8	8.1	10.8	8.8	9.9	7.5	6.6	6.0	99.8
		Percentage number of hours missed												0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

TIREE *(contd)*

Mean wind speed		Percentage number of hours with winds from												All directions
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	Total
		SEPTEMBER												
Calm														3.6
1-3	1-3													7.4
4-6	4-7	1.2	0.9	0.8	0.7	0.8	0.8	0.6	0.4	0.7	0.8	0.5	0.4	8.6
7-10	8-12	1.8	1.6	1.1	0.6	1.7	1.7	2.2	1.5	1.7	1.7	1.3	1.1	18.0
11-16	13-18	2.2	0.9	1.2	0.9	2.4	2.9	3.8	2.9	3.2	4.3	2.2	2.3	29.2
17-21	19-24	1.0	0.2	0.3	0.8	1.3	1.6	2.1	2.3	2.3	3.3	2.1	1.7	19.0
22-27	25-31	0.6		0.1	0.1	0.6	1.2	1.0	1.0	1.8	1.7	1.1	1.0	10.2
28-33	32-38	0.2	0.1	0+		0.1	0.6	0.1	0.2	0.6	0.5	0.3	0.6	3.3
34-40	39-46	0+					0.1	0.1	0.1	0.1	0.1	0+	0+	0.5
41-47	47-54											0+		0+
48-55	55-63													
56-63	64-72													
>63	> 72													
TOTAL		7.0	3.7	3.5	3.1	6.9	8.9	9.9	8.4	10.4	12.4	7.5	7.1	99.8
		Percentage number of hours missed												0
		OCTOBER												
Calm														1.8
1-3	1-3													4.6
4-6	4-7	0.8	0.3	0.5	0.2	0.3	0.5	0.5	0.9	0.9	1.1	0.6	0.6	7.2
7-10	8-12	1.2	0.4	0.6	0.3	0.5	0.7	1.4	1.7	2.4	2.2	2.0	1.4	14.8
11-16	13-18	2.8	0.4	0.3	0.7	1.3	1.9	2.8	3.3	4.0	3.9	2.8	1.8	26.0
17-21	19-24	2.0	0.1	0.1	0.6	1.3	2.1	2.8	3.1	3.2	3.2	1.2	0.8	20.5
22-27	25-31	1.1	0+	0.1	0.2	1.3	1.4	2.6	3.0	3.1	2.3	0.8	0.7	16.6
28-33	32-38	0.2	0+	0.2	0.3	0.3	0.4	0.6	0.9	0.8	0.4	0.4	0.4	4.9
34-40	39-46	0.1			0+	0+	0.1	0.2	0.2	0.2	0+	0+	0+	0.8
41-47	47-54	0+						0.1	0.1	0+			0.2	0.4
48-55	55-63	0+												0+
56-63	64-72	0+												0+
>63	>72													
TOTAL		8.2	1.2	1.8	2.3	5.0	7.1	11.0	13.2	14.6	13.1	7.8	5.9	97.6
		Percentage number of hours missed												2.2
		NOVEMBER												
Calm														3.1
1-3	1-3													4.9
4-6	4-7	0.9	0.9	0.8	0.6	0.5	0.7	0.7	0.8	0.9	0.6	0.6	0.4	8.4
7-10	8-12	1.8	1.5	1.0	1.0	0.8	1.3	1.8	1.6	1.5	1.9	1.5	1.4	17.1
11-16	13-18	3.1	1.4	0.9	1.0	1.3	2.8	3.7	3.6	3.2	3.2	2.7	2.1	29.0
17-21	19-24	1.5	0.5	0.3	0.3	1.2	1.3	3.0	2.2	1.7	1.3	1.5	1.3	16.1
22-27	25-31	1.1	0.2	0.5	0.3	0.8	1.4	2.5	1.1	1.6	1.7	1.7	0.9	13.8
28-33	32-38	0.3	0.1	0.1	0.1	0.2	0.9	0.9	0.5	0.5	0.5	0.8	0.4	5.3
34-40	39-46	0.2			0+	0+	0.6	0.4	0.1	0.1	0.2	0.3	0.1	2.0
41-47	47-54	0+					0.1	0.1		0+	0+	0+		0.2
48-55	55-63							0+			0+			0+
56-63	64-72													
>63	>72													
TOTAL		8.9	4.6	3.6	3.3	4.8	9.1	13.1	9.9	9.5	9.4	9.1	6.6	99.9
		Percentage number of hours missed												0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

TIREE *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
								DECEMBER						
Calm														2.5
1-3	1-3													4.6
4-6	4-7	0.3	0.4	0.4	0.3	0.3	0.5	0.5	0.4	0.5	0.3	0.3	0.2	4.4
7-10	8-12	1.1	0.6	0.6	0.5	0.8	0.8	1.2	1.5	1.2	1.0	0.9	0.6	10.8
11-16	13-18	1.9	1.4	1.0	1.1	1.2	1.4	2.7	3.5	2.4	2.8	2.0	1.8	23.2
17-21	19-24	1.4	0.5	0.7	0.7	1.0	1.3	2.6	2.2	3.0	2.3	1.9	1.5	19.1
22-27	25-31	1.2	0.7	0.3	0.8	1.4	2.1	3.1	2.4	2.9	2.1	1.7	1.0	19.7
28-33	32-38	0.6	0.2	0.2	0.4	0.8	1.0	1.1	1.5	1.3	1.1	0.5	0.3	9.0
34-40	39-46	0.3	0.1		0.1	1.1	0.4	0.4	0.7	0.6	0.3	0.3	0.6	4.9
41-47	47-54					0.2	0.1	0.1		0.1	0.1	0+	0.1	0.7
48-55	55-63						0+		0+	0+	0.1	0+	0.1	0.2
56-63	64-72									0+				0+
>63	>72													
TOTAL		6.8	3.9	3.2	3.9	6.8	7.6	11.7	12.2	12.0	10.1	7.6	6.2	99.1
													Percentage number of hours missed	0.8
								YEAR						
Calm														3.3
1-3	1-3													7.7
4-6	4-7	1.3	0.7	0.7	0.5	0.7	0.8	0.9	0.8	0.8	0.8	0.9	0.9	9.8
7-10	8-12	2.2	1.1	0.9	0.6	1.3	1.6	2.0	1.7	1.7	1.7	1.7	1.6	18.1
11-16	13-18	3.4	1.3	0.9	0.9	2.1	2.7	3.2	3.2	3.1	2.8	2.4	2.5	28.5
17-21	19-24	2.0	0.5	0.3	0.4	1.3	1.8	2.0	2.0	1.7	1.6	1.2	1.1	15.9
22-27	25-31	1.1	0.3	0.1	0.2	0.9	1.4	1.7	1.2	1.3	1.1	0.8	0.7	10.8
28-33	32-38	0.3	0.1	0+	0.1	0.3	0.6	0.5	0.5	0.4	0.3	0.3	0.3	3.7
34-40	39-46	0.1	0+		0+	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	1.4
41-47	47-54	0+				0+	0+	0+	0+	0+	0+	0+	0+	0+
48-55	55-63	0+					0+	0+	0+	0+	0+	0+	0+	0+
56-63	64-72	0+							0+	0+				0+
>63	>72													
TOTAL		10.4	4.0	2.9	2.7	6.8	9.2	10.5	9.6	9.1	8.4	7.4	7.2	99.2
													Percentage number of hours missed	0.7

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

RENFREW (55 52′N, 04° 24′W) 1950-59

Height of vane	1950-54	Height of cups	1955-59
above MSL	72′	above MSL	71′
above ground	42′	above ground	41′
above building	-	above building	-
effective height	42′	effective height	39′

The anemograph was on a steel lattice tower on open, almost level ground, the only obstruction being a building 12 ft high and about 100 yd away to the north-east. The surrounding country was fairly flat within 2-3 miles in all directions and the exposure was excellent.

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							JANUARY							
Calm														16.9
1-3	1-3													14.6
4-6	4-7	0.5	1.0	2.3	1.3	1.2	1.2	1.0	1.3	2.6	4.8	1.2	0.6	19.0
7-10	8-12	0.4	0.5	2.4	1.4	1.2	1.0	1.7	2.9	3.7	3.4	1.7	0.4	20.7
11-16	13-18	0.1	0.3	2.0	1.1	0.4	1.1	1.2	3.4	4.1	3.3	1.3	0.2	18.5
17-21	19-24	0+		0.2	0.3	0.1	0.1	0.3	1.7	2.0	1.0	0.4	0.1	6.2
22-27	25-31					0+	0+	0.2	0.9	0.7	0.7	0.3	0.1	2.9
28-33	32-38						0+		0.7	0.1	0.2	0+	0+	1.0
34-40	39-46							0+	0.1	0.1	0.1	0+		0.3
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.0	1.8	6.9	4.1	2.9	3.4	4.4	11.0	13.3	13.5	4.9	1.4	100.1
									Percentage number of hours missed					0
							FEBRUARY							
Calm														15.1
1-3	1-3													16.3
4-6	4-7	1.0	1.3	2.6	1.1	0.7	0.9	0.7	0.9	2.4	4.3	1.5	0.9	18.3
7-10	8-12	1.0	1.5	4.5	1.6	0.9	0.9	1.5	2.0	3.4	2.8	1.7	0.7	22.5
11-16	13-18	0.3	1.2	3.1	1.5	0.3	0.4	1.7	3.7	4.1	2.1	0.5	0.1	19.0
17-21	19-24	0+	0+	0.1	0.5		0+	0.5	1.8	1.7	0.8	0.1		5.5
22-27	25-31			0.1	0+		0+	0.3	1.1	0.6	0.3	0.1		2.5
28-33	32-38							0.2	0.3	0+	0.1	0+		0.6
34-40	39-46							0+	0.1					0.1
41-47	47-54							0+	0+					0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.3	4.0	10.4	4.7	1.9	2.2	4.9	9.9	12.2	10.4	3.9	1.7	99.9
									Percentage number of hours missed					0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

RENFREW *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	040°-160°	070°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							MARCH							
Calm														9.9
1-3	1-3													14.3
4-6	4-7	0.6	1.2	3.4	1.9	1.0	0.8	1.0	0.9	1.8	2.9	1.2	0.4	17.1
7-10	8-12	0.6	0.9	5.4	2.7	1.7	1.8	1.7	1.8	2.1	2.3	1.4	0.6	23.0
11-16	13-18	0.3	0.7	5.7	5.0	2.1	1.3	2.4	2.7	3.3	2.4	1.1	0.2	27.2
17-21	19-24		0.1	0.8	1.4	0.2	0.1	0.3	1.3	1.4	0.8	0.1	0+	6.5
22-27	25-31			0.1	0.6			0+	0.2	0.3	0.4			1.6
28-33	32-38			0+	0+				0.1	0.1	0.1			0.3
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.5	2.9	15.4	11.6	5.0	4.0	5.4	7.0	9.0	8.9	3.8	1.2	99.9
													Percentage number of hours missed	0
							APRIL							
Calm														10.0
1-3	1-3													14.8
4-6	4-7	0.7	1.1	3.0	1.1	0.5	0.8	0.9	1.1	2.3	3.6	1.6	0.5	17.2
7-10	8-12	0.7	0.9	3.8	2.1	0.3	0.6	1.2	2.7	4.4	4.1	3.1	0.7	24.6
11-16	13-18	0.6	0.5	2.9	1.5	0.2	0.5	1.6	4.6	5.2	5.1	2.9	0.2	25.8
17-21	19-24	0.1		0.5	0.2		0.1	0.6	1.4	1.2	1.3	0.6	0.1	6.1
22-27	25-31	0+		0.1				0.2	0.5	0.3	0.2	0.1		1.4
28-33	32-38							0.1	0+	0+				0.1
34-40	39-46							0+						0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.1	2.5	10.3	4.9	1.0	2.0	4.6	10.3	13.4	14.3	8.3	1.5	100.0
													Percentage number of hours missed	0
							MAY							
Calm														7.4
1-3	1-3													12.2
4-6	4-7	0.3	1.2	4.6	1.8	0.7	0.7	0.9	0.9	1.8	2.8	1.4	0.5	17.6
7-10	8-12	0.6	1.0	8.9	3.5	0.6	0.8	1.1	1.5	3.2	3.9	2.6	0.4	28.1
11-16	13-18	0.2	0.7	8.2	3.4	0.4	0.5	1.6	2.2	3.0	4.4	2.8	0.2	27.6
17-21	19-24		0.1	1.3	0.8	0+	0+	0.3	0.8	0.9	0.9	0.6		5.7
22-27	25-31			0.2	0.2			0.1	0.3	0.2	0.1	0.1	0+	1.2
28-33	32-38			0+	0.1					0+				0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.1	3.0	23.2	9.8	1.7	2.0	4.0	5.7	9.1	12.1	7.5	1.1	99.9
													Percentage number of hours missed	0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

RENFREW *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		JUNE												
Calm														8.2
1-3	1-3													13.9
4-6	4-7	0.2	1.2	4.3	1.3	0.5	0.6	0.8	1.2	2.7	4.1	1.9	0.4	19.2
7-10	8-12	0.4	0.6	6.7	2.4	0.5	0.6	1.1	2.8	4.7	5.8	2.5	0.3	28.4
11-16	13-18	0.2	0.2	4.9	2.2	0.3	0.1	1.2	3.7	4.2	4.9	3.4	0.2	25.5
17-21	19-24			0.7	0.4	0+	0+	0.3	0.8	0.8	0.6	0.1		3.7
22-27	25-31			0.3	0.1			0.1	0.1	0.3	0.2			1.1
28-33	32-38				0+			0+	0+	0+				0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		0.8	2.0	16.9	6.4	1.3	1.3	3.5	8.6	12.7	15.6	7.9	0.9	100.0
		Percentage number of hours missed												0
		JULY												
Calm														8.3
1-3	1-3													14.4
4-6	4-7	0.2	0.6	2.5	1.2	0.6	0.5	0.9	1.2	3.7	5.4	1.9	0.4	19.1
7-10	8-12	0.2	0.3	4.7	2.0	0.6	0.6	0.9	3.1	7.3	8.0	4.0	0.5	32.2
11-16	13-18	0.1	0+	2.9	1.7	0.2	0.3	1.1	3.8	5.1	6.0	2.3	0.1	23.6
17-21	19-24			0.3	0+		0+	0.1	0.2	0.7	0.4	0.3		2.0
22-27	25-31			0.1				0+		0.2	0+	0+		0.3
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		0.5	0.9	10.5	4.9	1.4	1.4	3.0	8.3	17.0	19.8	8.5	1.0	99.9
		Percentage number of hours missed												0
		AUGUST												
Calm														12.2
1-3	1-3													16.2
4-6	4-7	0.5	0.9	3.8	1.5	1.0	0.8	1.3	1.7	3.4	4.6	1.5	0.3	21.3
7-10	8-12	0.3	0.7	5.1	2.3	0.7	0.8	2.0	3.5	5.4	4.9	2.5	0.3	28.5
11-16	13-18	0.1	0.3	2.0	0.7	0.2	0.1	1.6	2.7	4.3	3.5	1.8	0.1	17.4
17-21	19-24	0+	0+	0.1	0.2		0+	0.2	1.0	1.2	0.7	0.1	0+	3.5
22-27	25-31				0+		0+	0.2	0.3	0.2	0.2	0+		0.9
28-33	32-38							0+	0+	0+	0+			0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		0.9	1.9	11.0	4.7	1.9	1.7	5.3	9.2	14.5	13.9	5.9	0.7	100.0
		Percentage number of hours missed												0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

RENFREW *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							SEPTEMBER							
Calm														12.6
1-3	1-3													13.4
4-6	4-7	0.3	0.8	3.5	1.7	0.7	0.8	1.4	1.8	2.5	3.2	1.5	0.4	18.6
7-10	8-12	0.2	0.4	3.0	2.5	1.0	1.4	1.9	3.5	5.1	4.3	1.6	0.3	25.2
11-16	13-18	0.1	0+	2.9	1.5	0.4	0.9	1.5	4.1	5.3	5.0	2.0	0.2	23.9
17-21	19-24	0+		0.3	0.1	0.3	0.3	0.3	1.0	1.2	1.2	0.3		5.0
22-27	25-31			0+	0+			0+	0.5	0.5	0.2			1.2
28-33	32-38								0.1	0+	0+			0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		0.6	1.2	9.7	5.8	2.4	3.4	5.1	11.0	14.6	13.9	5.4	0.9	100.0
Percentage number of hours missed														0
							OCTOBER							
Calm														11.2
1-3	1-3													12.7
4-6	4-7	0.4	0.6	3.0	1.8	0.9	1.1	1.7	2.0	3.8	4.5	1.2	0.4	21.4
7-10	8-12	0.3	0.2	2.2	2.3	0.9	0.8	2.1	3.8	5.4	3.6	1.3	0.4	23.3
11-16	13-18	0.1	0.1	1.4	1.3	0.7	0.5	1.6	6.1	6.5	3.8	0.9	0.3	23.3
17-21	19-24			0+	0.2	0+	0.1	0.3	2.1	2.0	0.7	0.2	0.1	5.7
22-27	25-31				0+	0+	0+	0.2	1.1	0.6	0.2	0.1		2.2
28-33	32-38							0+	0.1					0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		0.8	0.9	6.6	5.6	2.5	2.5	5.9	15.2	18.3	12.8	3.7	1.2	99.9
Percentage number of hours missed														0
							NOVEMBER							
Calm														16.6
1-3	1-3													16.7
4-6	4-7	0.3	0.9	2.3	1.3	1.2	1.5	1.2	1.5	3.4	4.1	1.0	0.3	19.0
7-10	8-12	0.4	0.8	3.3	1.6	1.6	1.6	2.3	2.2	4.5	3.1	1.5	0.2	23.1
11-16	13-18	0.2	0.4	1.7	1.1	0.7	0.8	1.8	3.0	4.1	2.2	0.8	0.2	17.0
17-21	19-24		0.1	0.3	0.4	0.1	0.2	0.3	1.0	1.6	1.0	0.1		5.1
22-27	25-31			0.1	0.2	0+	0.1	0.2	0.3	0.5	0.4	0.1		1.9
28-33	32-38			0.1			0.1	0.1	0+	0.1	0.1			0.5
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		0.9	2.2	7.8	4.6	3.6	4.3	5.9	8.0	14.2	10.9	3.5	0.7	99.9
Percentage number of hours missed														0+

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

RENFREW *(contd)*

Mean wind speed knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		DECEMBER												
Calm														15.1
1-3	1-3													12.6
4-6	4-7	0.2	0.7	2.1	1.2	0.8	1.0	1.0	1.0	2.1	3.3	0.9	0.2	14.5
7-10	8-12	0.1	0.5	2.9	1.4	1.2	1.2	1.9	2.7	3.8	2.9	1.1	0.1	19.8
11-16	13-18		0.5	2.4	1.3	1.2	0.8	1.7	4.6	5.6	2.7	0.8	0+	21.6
17-21	19-24		0.1	0.6	0.6	0.3	0.1	0.5	2.7	3.1	1.4	0.5	0+	9.9
22-27	25-31		0.1	0.2	0.3	0+	0+	0.3	1.8	1.1	0.6	0.4	0+	4.8
28-33	32-38			0+	0.1			0.1	0.5	0.3	0.2	0+		1.2
34-40	39-46				0+				0.1	0.1	0.1			0.3
41-47	47-54										0+			0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		0.3	1.9	8.2	4.9	3.5	3.1	5.5	13.4	16.1	11.2	3.7	0.3	99.8
Percentage number of hours missed														0
		YEAR												
Calm														11.9
1-3	1-3													14.3
4-6	4-7	0.4	1.0	3.1	1.4	0.8	0.9	1.1	1.3	2.7	4.0	1.4	0.4	18.5
7-10	8-12	0.4	0.7	4.4	2.2	0.9	1.0	1.6	2.7	4.4	4.1	2.1	0.4	24.9
11-16	13-18	0.2	0.4	3.3	1.9	0.6	0.6	1.6	3.7	4.6	3.8	1.7	0.2	22.6
17-21	19-24	0+	0+	0.5	0.4	0.1	0.1	0.3	1.3	1.5	0.9	0.3	0+	5.4
22-27	25-31	0+	0+	0.1	0.1	0+	0+	0.2	0.6	0.5	0.3	0.1	0+	1.9
28-33	32-38			0+	0+		0+	0+	0.2	0.1	0.1	0+	0+	0.4
34-40	39-46				0+			0+	0+	0+	0+	0+		0+
41-47	47-54							0+	0+		0+			0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.0	2.1	11.4	6.0	2.4	2.6	4.8	9.8	13.8	13.2	5.6	1.0	99.9
Percentage number of hours missed														0+

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

PRESTWICK (55° 30′N, 04° 35′W) 1951-59

Height of vane	1953-58	Height of cups	1959
above MSL	80′	above MSL	68′
above ground	50′	above ground	33′
above building	40′	above building	-
effective height	40′	effective height	33′

Until 1958 the instrument was on a 40 ft mast on the roof of a building 10 ft high; other buildings to the west, north and north-east and a clump of trees about 400 ft to the south-east caused some obstruction. From October 1958 the records were from an electrical anemograph on an unobstructed site in the centre of the airfield.

Mean wind speed knots	Mean wind speed m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		JANUARY												
Calm														4.9
1-3	1-3													12.9
4-6	4-7	0.6	0.7	1.6	2.4	3.1	1.9	1.5	1.1	0.5	0.6	0.7	1.7	16.4
7-10	8-12	0.4	0.5	1.1	1.3	2.1	2.1	2.8	3.0	2.4	1.7	2.2	2.2	21.8
11-16	13-18	0.2	0.3	1.3	1.0	1.1	1.8	3.0	3.2	3.1	3.0	2.3	1.8	22.1
17-21	19-24			0.1	0.4	0.3	0.7	0.8	1.3	1.3	1.3	1.1	0.3	7.6
22-27	25-31				0.1	0.4	0.4	0.2	0.3	1.2	0.7	0.8	0.1	4.2
28-33	32-38					0.1	0.1		0+	0.3	0.4	0.1	0+	1.0
34-40	39-46						0+	0+	0+	0.2	0.2	0+		0.4
41-47	47-54									0+	0+			0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.2	1.5	4.1	5.2	7.1	7.0	8.3	8.9	9.0	7.9	7.2	6.1	91.3
									Percentage number of hours missed					8.5
		FEBRUARY												
Calm														8.4
1-3	1-3													18.0
4-6	4-7	1.2	1.7	2.4	2.3	2.8	1.4	1.3	1.2	1.2	0.7	1.1	1.9	19.2
7-10	8-12	1.0	2.2	2.2	2.2	1.9	1.8	2.0	1.8	2.0	1.2	1.8	1.9	22.0
11-16	13-18	0.4	1.2	1.4	1.5	1.3	1.6	2.6	3.0	3.7	1.7	1.7	1.0	21.1
17-21	19-24	0+	0.1	0.2	0.5	0.4	0.3	1.5	1.0	1.0	0.8	0.3	0+	6.1
22-27	25-31			0+	0.2	0.2	0+	0.2	0.4	0.5	0.3	0.1		1.9
28-33	32-38				0+	0+		0+	0.3	0.2	0.1			0.6
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.6	5.2	6.2	6.7	6.6	5.1	7.6	7.7	8.6	4.8	5.0	4.8	97.3
									Percentage number of hours missed					2.8

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

PRESTWICK *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							MARCH							
Calm														4.7
1-3	1-3													16.0
4-6	4-7	0.6	1.5	2.0	2.6	3.1	2.2	1.3	1.0	1.4	1.3	1.5	0.6	19.1
7-10	8-12	0.7	2.1	3.3	3.9	3.3	2.6	2.2	1.9	2.4	1.7	1.5	0.9	26.5
11-16	13-18	0.2	1.5	4.2	3.4	3.0	2.5	3.0	1.5	1.9	1.5	1.2	0.7	24.6
17-21	19-24		0.1	1.1	1.0	1.0	0.6	0.4	0.5	0.6	0.4	0.4	0.2	6.3
22-27	25-31			0.1	0.5	0.1	0.1		0.4	0.5	0.1	0.1	0+	1.9
28-33	32-38				0+				0+	0+				0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.5	5.2	10.7	11.4	10.5	8.0	6.9	5.3	6.8	5.0	4.7	2.4	99.1
										Percentage number of hours missed				0.9
							APRIL							
Calm														6.9
1-3	1-3													21.4
4-6	4-7	0.4	1.3	1.7	1.5	1.3	1.2	1.5	1.8	3.2	2.7	1.9	1.5	20.0
7-10	8-12	0.5	1.2	2.0	1.4	1.0	1.4	1.8	2.3	4.9	3.0	2.9	1.4	23.8
11-16	13-18	0.3	0.6	1.8	0.8	0.5	1.3	2.5	2.7	4.0	2.9	2.5	0.8	20.7
17-21	19-24	0+	0.1	0.4	0.2	0+	0.2	0.8	0.7	1.0	0.7	0.5	0.1	4.7
22-27	25-31		0+	0+			0.1	0.2	0.3	0.3	0.3	0.2		1.4
28-33	32-38							0+	0+	0.1	0+			0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.2	3.2	5.9	3.9	2.8	4.2	6.8	7.8	13.5	9.6	8.0	3.8	99.0
										Percentage number of hours missed				0.9
							MAY							
Calm														5.5
1-3	1-3													18.1
4-6	4-7	0.6	1.7	2.2	1.8	1.7	1.2	0.7	1.1	2.1	3.6	2.1	1.1	19.9
7-10	8-12	0.5	2.2	2.7	2.1	2.0	1.8	1.4	1.8	3.9	4.2	3.3	1.4	27.3
11-16	13-18	0.2	1.9	3.3	1.9	1.0	1.4	1.5	1.5	2.6	2.7	3.2	0.6	21.8
17-21	19-24	0+	0.4	1.1	0.5	0.1	0.2	0.5	0.2	0.2	0.9	0.9	0+	5.0
22-27	25-31	0+	0+	0+	0.1	0+	0.1	0+			0.1	0.1		0.4
28-33	32-38				0+							0+		0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.3	6.2	9.3	6.4	4.8	4.7	4.1	4.6	8.8	11.5	9.6	3.1	98.0
										Percentage number of hours missed				2.0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

PRESTWICK *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							JUNE							
Calm														7.2
1-3	1-3													18.6
4-6	4-7	0.3	1.4	2.1	1.7	1.3	1.0	1.3	1.4	3.6	4.0	3.1	0.8	22.0
7-10	8-12	0.1	2.2	3.5	1.4	1.0	1.1	2.2	2.3	4.2	3.6	4.0	0.7	26.3
11-16	13-18	0.1	0.9	2.0	0.9	0.6	0.7	2.0	2.0	3.5	3.0	3.8	0.4	19.9
17-21	19-24		0.1	0.4	0.3	0.1	0.1	0.4	0.5	0.7	0.5	0.4	0+	3.5
22-27	25-31		0+	0.2	0.1	0+	0+	0+	0+	0.1	0.1			0.5
28-33	32-38				0+									0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		0.5	4.6	8.2	4.4	3.0	2.9	5.9	6.2	12.1	11.2	11.3	1.9	98.0
													Percentage number of hours missed	1.9
							JULY							
Calm														6.2
1-3	1-3													18.5
4-6	4-7	0.4	1.1	1.4	1.2	1.3	1.1	0.9	1.2	3.0	4.0	3.1	1.4	20.1
7-10	8-12	0.2	1.1	1.4	1.2	1.0	1.2	2.6	3.6	6.2	5.7	4.2	1.4	29.8
11-16	13-18	0.1	0.2	0.6	0.6	0.4	0.5	2.2	2.8	5.9	2.9	3.1	0.9	20.2
17-21	19-24			0.1	0.1			0.1	0.3	0.9	0.6	0.6	0.1	2.8
22-27	25-31				0+				0+	0.1	0.2			0.3
28-33	32-38				0+									0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		0.7	2.4	3.5	3.1	2.7	2.8	5.8	7.9	16.1	13.4	11.0	3.8	97.9
													Percentage number of hours missed	2.1
							AUGUST							
Calm														7.4
1-3	1-3													20.6
4-6	4-7	0.6	1.5	1.7	1.3	1.4	1.4	1.3	1.1	2.6	2.9	2.0	1.7	19.5
7-10	8-12	0.3	1.2	2.2	1.3	1.6	1.9	2.5	2.9	5.4	4.0	4.4	1.4	29.1
11-16	13-18	0+	0.3	0.9	0.4	0.5	0.8	2.4	2.6	3.6	2.4	2.8	0.3	17.0
17-21	19-24		0+	0.1	0.2		0.1	0.5	0.5	0.5	0.5	0.1		2.5
22-27	25-31			0+	0.1		0.1	0.1	0.1	0.1	0.4	0+		0.9
28-33	32-38							0+			0.1			0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		0.9	3.0	4.9	3.3	3.5	4.3	6.8	7.2	12.2	10.3	9.3	3.4	97.1
													Percentage number of hours missed	2.8

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

PRESTWICK *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							SEPTEMBER							
Calm														5.3
1-3	1-3													19.2
4-6	4-7	0.4	1.2	1.8	2.2	2.2	1.9	1.8	1.8	2.1	2.3	2.1	1.1	20.9
7-10	8-12	0.1	0.7	2.2	2.0	1.6	1.9	2.8	2.4	3.5	3.1	3.1	1.6	25.0
11-16	13-18	0+	0.2	1.3	1.0	1.0	1.3	2.5	2.3	3.4	4.0	2.7	0.8	20.5
17-21	19-24		0+	0.3	0.6	0.3	0.4	0.7	0.6	1.3	1.5	0.5	0.3	6.5
22-27	25-31			0+	0+		0+	0.1	0.2	0.4	0.6	0.1	0+	1.4
28-33	32-38								0+	0.1	0+	0.1		0.2
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		0.5	2.1	5.6	5.8	5.1	5.5	7.9	7.3	10.8	11.5	8.6	3.8	99.0
													Percentage number of hours missed	1.0
							OCTOBER							
Calm														4.9
1-3	1-3													18.7
4-6	4-7	0.7	0.5	0.8	1.7	2.2	1.9	2.1	2.4	1.7	1.3	1.3	1.7	18.3
7-10	8-12	0.4	0.6	1.2	1.9	2.4	2.1	3.5	3.5	4.1	3.0	2.2	1.7	26.6
11-16	13-18	0.1	0.1	0.6	1.5	1.4	1.4	2.1	2.9	4.3	4.4	1.6	0.9	21.3
17-21	19-24			0.1	0.3	0.4	0.3	0.2	1.0	2.0	2.2	0.7	0.2	7.4
22-27	25-31				0+	0.1	0.1	0.1	0.2	0.6	0.3	0.2	0.2	1.8
28-33	32-38					0.1	0+	0+	0+					0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.2	1.2	2.7	5.4	6.6	5.8	8.0	10.0	12.7	11.2	6.0	4.7	99.1
													Percentage number of hours missed	1.1
							NOVEMBER							
Calm														9.3
1-3	1-3													15.2
4-6	4-7	0.6	0.9	1.6	2.9	3.6	2.5	2.5	1.7	0.9	0.8	1.1	1.6	20.7
7-10	8-12	0.3	0.8	1.9	1.8	2.0	2.4	3.1	2.3	2.2	2.2	1.6	1.7	22.3
11-16	13-18	0.2	0.6	1.1	1.0	1.7	1.6	3.0	2.6	3.0	2.9	2.3	0.8	20.8
17-21	19-24		0.1	0.4	0.2	0.6	0.7	1.2	0.7	1.3	1.2	0.7	0.1	7.2
22-27	25-31		0.1	0.1	0.4	0.2	0.2	0.2	0.3	0.9	0.9	0.4	0+	3.7
28-33	32-38				0.1	0+	0+	0+		0+	0.2	0.2		0.5
34-40	39-46							0+				0+		0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.1	2.5	5.1	6.4	8.1	7.4	10.0	7.6	8.3	8.2	6.3	4.2	99.7
													Percentage number of hours missed	0.4

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

PRESTWICK *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							DECEMBER							
Calm														2.5
1-3	1-3													9.7
4-6	4-7	0.4	0.7	1.2	2.6	3.2	1.4	1.6	1.3	0.5	0.4	0.7	0.9	14.9
7-10	8-12	0.2	0.9	1.2	1.6	2.5	2.6	3.1	2.5	2.1	1.1	1.8	0.9	20.5
11-16	13-18	0.1	0.8	1.6	1.5	2.5	2.1	4.3	4.0	5.4	3.7	2.4	0.6	29.0
17-21	19-24	0.1	0.2	0.3	0.6	1.3	0.5	1.1	1.9	2.6	2.5	0.9	0.2	12.2
22-27	25-31	0+	0+	0.2	0.4	0.7	0.2	0.2	1.1	2.0	1.9	0.5	0.2	7.4
28-33	32-38				0.1	0.1			0.1	0.3	0.6	0.1	0+	1.3
34-40	39-46								0+	0+	0.1	0.1	0+	0.2
41-47	47-54										0+			0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		0.8	2.6	4.5	6.8	10.3	6.8	10.3	10.9	12.9	10.3	6.5	2.8	97.7
									Percentage number of hours missed					2.2
							YEAR							
Calm														6.1
1-3	1-3													17.2
4-6	4-7	0.6	1.2	1.7	2.0	2.3	1.6	1.5	1.4	1.9	2.0	1.7	1.3	19.2
7-10	8-12	0.4	1.3	2.1	1.8	1.9	1.9	2.5	2.5	3.6	2.9	2.8	1.4	25.1
11-16	13-18	0.2	0.7	1.7	1.3	1.2	1.4	2.6	2.6	3.7	2.9	2.5	0.8	21.6
17-21	19-24	0+	0.1	0.4	0.4	0.4	0.3	0.7	0.8	1.1	1.1	0.6	0.1	6.0
22-27	25-31	0+	0+	0.1	0.2	0.1	0.1	0.1	0.3	0.6	0.5	0.2	0.1	2.3
28-33	32-38				0+	0+	0+	0+	0+	0.1	0.1	0+	0+	0.2
34-40	39-46						0+	0+	0+	0+	0+	0+	0+	0+
41-47	47-54									0+	0+			0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.2	3.3	6.0	5.7	5.9	5.3	7.4	7.6	11.0	9.5	7.8	3.7	97.7
									Percentage number of hours missed					2.2

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

ESKDALEMUIR (55° 19′N, 03° 12′W) 1955-63

Height of vane:	
above MSL	825′
above ground	50′
above building	22′
effective height	35′

This anemometer became badly oversheltered in all directions by the growth of trees between 1946 and 1955, when extensive lopping and pruning was carried out. This markedly improved the exposure but there remained considerable eddying in westerly winds caused by a building in that direction.

Mean wind speed		Percentage number of hours with winds from												All directions
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	Total
		JANUARY												
Calm														18.0
1-3	1-3													15.6
4-6	4-7	1.6	1.9	2.3	0.5	0.3	1.1	1.5	1.8	1.5	0.7	0.9	0.9	15.0
7-10	8-12	1.7	2.3	1.7	0.5	0.3	1.3	2.0	2.0	1.9	1.2	1.4	0.9	17.2
11-16	13-18	0.6	0.8	1.7	0.7	0.3	1.1	1.8	3.6	2.6	2.0	1.8	0.8	17.8
17-21	19-24		0.1	0.3	0.2	0+	0+	0.5	1.9	1.1	0.7	1.0	0.2	6.0
22-27	25-31	0+	0+	0+	0.1		0+	0.3	1.5	0.6	0.3	0.5	0+	3.3
28-33	32-38	0+		0.1	0.1		0+	0+	0.7	0.1	0+	0.2	0+	1.2
34-40	39-46			0+				0.1	0+					0.1
41-47	47-54									0+	0+			0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.9	5.1	6.1	2.1	0.9	3.5	6.2	11.5	7.8	4.9	5.8	2.8	94.2
													Percentage number of hours missed	5.4
		FEBRUARY												
Calm														17.4
1-3	1-3													16.5
4-6	4-7	2.9	2.4	1.6	0.6	0.4	0.7	1.4	1.5	1.2	1.0	0.9	1.5	16.1
7-10	8-12	2.0	2.1	3.0	0.6	0.7	0.8	1.5	2.4	1.6	1.7	1.2	1.1	18.7
11-16	13-18	1.1	0.9	1.7	1.2	0.8	1.0	1.5	3.9	2.4	1.6	1.8	1.2	19.1
17-21	19-24	0.1	0+	0.5	0.8	0.4	0.2	0.5	2.2	0.9	0.7	0.8	0.1	7.2
22-27	25-31	0+			0.2	0.2	0.3	0.3	1.6	0.5	0.5	0.5		4.1
28-33	32-38	0+			0+		0+		0.2	0+	0.1	0.1		0.4
34-40	39-46						0.1	0+	0.1		0+	0.1		0.3
41-47	47-54							0+						0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.1	5.4	6.8	3.4	2.5	3.1	5.2	11.9	6.6	5.6	5.4	3.9	99.8
													Percentage number of hours missed	0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

ESKDALEMUIR *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							MARCH							
Calm														13.3
1-3	1-3													17.4
4-6	4-7	3.5	3.2	1.9	1.5	1.1	1.0	1.3	1.6	0.8	0.9	0.9	1.1	18.8
7-10	8-12	2.8	2.1	1.9	1.8	1.4	1.6	2.2	3.2	2.2	1.6	1.3	0.7	22.8
11-16	13-18	0.9	1.0	1.6	1.1	1.5	0.8	1.5	3.1	2.9	1.3	1.2	0.3	17.2
17-21	19-24	0.2	0.2	0.2	0.1	0.2	0.1	0.6	1.0	0.5	0.5	0.4	0+	4.0
22-27	25-31	0+	0.1	0+	0+	0.1		0.3	0.5	0.3	0+	0.1		1.4
28-33	32-38			0+	0+			0.1	0.1	0+		0+		0.2
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		7.4	6.6	5.6	4.5	4.3	3.5	6.0	9.5	6.7	4.3	3.9	2.1	95.1
									Percentage number of hours missed					4.7
							APRIL							
Calm														16.0
1-3	1-3													18.0
4-6	4-7	2.8	3.3	1.7	0.8	0.8	1.0	1.7	2.5	2.1	1.9	1.1	1.0	20.7
7-10	8-12	1.0	3.6	1.8	0.8	0.7	1.2	1.4	3.8	2.8	1.7	1.6	0.7	21.1
11-16	13-18	0.3	1.5	1.1	0.4	0.5	1.1	1.3	4.4	2.5	1.6	1.0	0.2	15.9
17-21	19-24		0+	0.5		0.2	0.4	0.4	1.5	1.3	0.5	0.3	0+	5.1
22-27	25-31			0+			0.2	0.3	0.7	0.2	0+	0.2	0+	1.6
28-33	32-38							0+	0.1					0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.1	8.4	5.1	2.0	2.2	3.9	5.1	13.0	8.9	5.7	4.2	1.9	98.5
									Percentage number of hours missed					1.1
							MAY							
Calm														13.1
1-3	1-3													19.8
4-6	4-7	2.4	2.5	2.4	1.7	0.5	1.1	1.7	1.9	1.6	1.7	1.5	1.0	20.0
7-10	8-12	2.0	1.9	2.4	1.3	0.7	1.1	1.6	2.7	2.1	2.6	2.5	0.8	21.7
11-16	13-18	0.4	1.0	1.2	0.6	0.3	1.3	1.3	3.1	2.8	2.3	2.6	0.2	17.1
17-21	19-24		0.2	0.1	0.1	0.1	0.1	0.5	1.8	1.4	0.9	0.7	0+	5.9
22-27	25-31		0.2	0+	0+		0.1	0.2	0.8	0.3	0.2	0.2		2.0
28-33	32-38							0.1	0.2	0+				0.3
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.8	5.8	6.1	3.7	1.6	3.7	5.4	10.5	8.2	7.7	7.5	2.0	99.9
									Percentage number of hours missed					0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

ESKDALEMUIR *(contd)*

Mean wind speed		Percentage number of hours with winds from												All directions
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	Total
								JUNE						
Calm														14.2
1-3	1-3													17.7
4-6	4-7	2.2	2.9	2.7	0.8	0.6	0.9	1.3	2.7	2.6	1.6	1.8	0.8	20.9
7-10	8-12	0.8	2.2	2.7	1.0	0.6	0.8	1.4	4.8	4.2	3.3	2.9	0.8	25.5
11-16	13-18	0.2	0.6	0.7	0.9	0.3	0.3	0.7	5.5	3.0	1.9	1.2	0.2	15.5
17-21	19-24		0.1	0.1	0.3	0.2	0.1	0.3	1.6	0.8	0.4	0.1		4.0
22-27	25-31			0+	0.1	0+		0.1	1.0	0.4	0.2	0+		1.8
28-33	32-38							0.1	0.1	0.1		0+		0.3
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.2	5.8	6.2	3.1	1.7	2.1	3.9	15.7	11.1	7.4	6.0	1.8	99.9
Percentage number of hours missed														0
								JULY						
Calm														16.3
1-3	1-3													21.4
4-6	4-7	1.8	3.2	3.3	0.9	0.3	0.7	1.3	2.1	3.4	3.3	2.6	0.7	23.6
7-10	8-12	0.6	2.2	2.5	1.1	0.3	0.7	1.4	4.6	3.5	2.7	3.1	0.4	23.1
11-16	13-18	0.1	0.6	1.0	0.4	0.2	0.1	0.7	4.2	1.7	1.3	1.4	0.1	11.8
17-21	19-24			0.1	0+	0+	0+	0.1	1.0	0.6	0.3	0.4	0+	2.5
22-27	25-31			0+	0+			0+	0.1	0.2	0.2	0.1		0.6
28-33	32-38								0+					0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.5	6.0	6.9	2.4	0.8	1.5	3.5	12.0	9.4	7.8	7.6	1.2	99.3
Percentage number of hours missed														0.1
								AUGUST						
Calm														16.0
1-3	1-3													22.4
4-6	4-7	2.1	2.6	2.8	0.8	0.4	0.9	1.7	2.2	3.5	3.6	2.7	0.9	24.2
7-10	8-12	0.6	1.4	1.3	0.7	0.1	0.4	1.6	3.7	4.1	3.3	2.2	0.4	19.8
11-16	13-18	0.2	0.2	0.4	0.4	0.1	0.4	0.9	3.9	3.0	1.3	1.6	0.1	12.5
17-21	19-24	0+	0.1			0+	0+	0.1	1.4	1.1	0.2	0.3	0+	3.2
22-27	25-31	0+					0+	0+	0.4	0.4	0.1	0.1	0+	1.0
28-33	32-38							0+	0.1	0.1		0+		0.2
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.9	4.3	4.5	1.9	0.6	1.7	4.3	11.7	12.2	8.5	6.9	1.4	99.3
Percentage number of hours missed														0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

ESKDALEMUIR *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from												All directions
		350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	Total
		SEPTEMBER												
Calm														18.5
1-3	1-3													18.6
4-6	4-7	1.8	2.5	1.3	0.5	0.4	1.0	1.9	3.6	3.3	2.9	2.0	0.8	22.0
7-10	8-12	0.6	1.4	1.7	0.8	0.4	1.4	2.0	4.9	3.3	2.1	1.8	0.5	20.9
11-16	13-18	0.3	0.3	0.7	0.5	0.3	0.6	1.5	4.5	2.4	1.5	1.3	0.2	14.1
17-21	19-24		0+	0.1	0.2	0+	0+	0.3	1.5	1.0	0.4	0.2		3.7
22-27	25-31				0+	0+	0.1	0.3	0.7	0.4	0+	0.1	0+	1.6
28-33	32-38							0.1	0.2	0+				0.3
34-40	39-46								0.1					0.1
41-47	47-54								0+					0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.7	4.2	3.8	2.0	1.1	3.1	6.1	15.5	10.4	6.9	5.4	1.5	99.8
Percentage number of hours missed														0
		OCTOBER												
Calm														12.8
1-3	1-3													19.0
4-6	4-7	1.6	1.1	1.3	0.4	0.3	1.2	2.7	3.2	2.8	2.0	1.6	0.9	19.1
7-10	8-12	1.4	1.1	1.3	0.6	0.3	1.0	2.3	5.4	3.4	2.6	1.8	1.0	22.2
11-16	13-18	1.0	0.1	0.7	0.8	0.2	0.6	1.5	5.6	4.4	2.1	1.2	1.0	19.2
17-21	19-24	0.2		0+	0.1		0.1	0.3	2.0	1.4	0.5	0.4	0.3	5.3
22-27	25-31						0+	0.2	1.1	0.6	0+	0.2	0+	2.1
28-33	32-38							0+	0.1	0.1		0+		0.2
34-40	39-46		0+	0+										0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.2	2.3	3.3	1.9	0.8	2.9	7.0	17.4	12.7	7.2	5.2	3.2	99.9
Percentage number of hours missed														0
		NOVEMBER												
Calm														22.9
1-3	1-3													20.3
4-6	4-7	3.6	2.0	1.7	0.4	0.5	1.8	2.1	2.3	2.0	1.7	1.3	0.8	20.2
7-10	8-12	1.4	1.8	1.5	0.8	0.7	2.2	2.7	2.7	2.2	0.8	0.9	0.9	18.6
11-16	13-18	0.6	0.6	0.6	0.3	0.6	1.3	2.0	1.7	2.1	0.8	0.9	0.4	11.9
17-21	19-24	0+		0.2	0.1	0.1	0.3	0.8	0.8	0.6	0.6	0.3	0.1	3.9
22-27	25-31				0.1	0+	0+	0.2	0.4	0.5	0.2	0.1		1.5
28-33	32-38				0+			0.1	0.1		0+			0.2
34-40	39-46							0+						0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.6	4.4	4.0	1.7	1.9	5.6	7.9	8.0	7.4	4.1	3.5	2.2	99.5
Percentage number of hours missed														0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

ESKDALEMUIR *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
								DECEMBER						
Calm														19.0
1-3	1-3													18.0
4-6	4-7	2.9	1.5	1.6	0.4	0.4	1.1	2.1	1.9	1.4	1.1	0.7	0.5	15.6
7-10	8-12	0.8	1.8	1.1	0.5	0.5	1.4	2.1	3.3	2.1	1.2	0.8	0.3	15.9
11-16	13-18	0.3	1.1	0.9	0.6	0.9	1.0	1.5	4.7	4.2	1.3	1.2	0.3	18.0
17-21	19-24		0+	0.3	0.6	0.3	0.1	0.6	2.7	1.9	0.9	0.6	0+	8.0
22-27	25-31			0.1	0.5	0.2		0.1	1.7	0.7	0.4	0.4		4.1
28-33	32-38			0+	0+			0.2	0.6	0.1	0+	0.1		1.0
34-40	39-46							0+	0.1		0+	0+		0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.0	4.4	4.0	2.6	2.3	3.6	6.6	15.0	10.4	4.9	3.8	1.1	99.7
Percentage number of hours missed														0
								YEAR						
Calm														16.4
1-3	1-3													18.7
4-6	4-7	2.4	2.4	2.0	0.8	0.5	1.1	1.7	2.3	2.2	1.9	1.5	0.9	19.7
7-10	8-12	1.3	2.0	1.9	0.9	0.6	1.2	1.8	3.6	2.8	2.1	1.8	0.7	20.7
11-16	13-18	0.5	0.7	1.0	0.7	0.5	0.8	1.4	4.0	2.8	1.6	1.4	0.4	15.8
17-21	19-24	0.1	0.1	0.2	0.2	0.1	0.1	0.4	1.6	1.0	0.6	0.5	0.1	5.0
22-27	25-31	0+	0+	0+	0.1	0.1	0.1	0.2	0.9	0.4	0.2	0.2	0+	2.2
28-33	32-38	0+		0+	0+	0+	0+	0.1	0.2	0.1	0+	0+	0+	0.4
34-40	39-46			0+			0+	0+	0+	0+	0+	0+	0+	0+
41-47	47-54						0+	0+	0+	0+				0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.3	5.2	5.1	2.7	1.8	3.3	5.6	12.6	9.3	6.4	5.4	2.1	98.9
Percentage number of hours missed														0.9

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SOUTH SHIELDS (55° 00′N, 01° 26′W) 1950-59

Height of vane:

above MSL	73′
above ground	57′
above building	21′
effective height	44′

The anemograph head was carried on a mast 21 feet above the northern end of the flat roof of a building lying north to south. The exposure was good from north and east but the building may have introduced some irregularities with southerly winds. Winds from south through west to north were often turbulent due to the topography.

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
								JANUARY						
Calm														0.7
1-3	1-3													7.7
4-6	4-7	0.1	0.2	0.1	0.1	0.2	1.0	2.8	4.1	4.9	2.2	1.5	0.4	17.6
7-10	8-12	0.3	0.3	0.4	0.1	0.4	1.6	3.7	4.0	5.3	4.3	3.4	1.0	24.8
11-16	13-18	1.1	0.5	0.9	0.7	0.8	1.9	2.3	2.1	3.2	7.7	6.5	1.4	29.1
17-21	19-24	0.8	0.3	1.0	0.6	0.2	0.6	0.5	0.4	0.6	2.9	3.1	0.9	11.9
22-27	25-31	0.6	0.2	0.3	0.6	1.0	0.3	0.3	0+	0.2	0.8	1.2	0.6	6.1
28-33	32-38	0.5	0+		0.3	0.1				0.1	0.2	0.3	0.3	1.8
34-40	39-46	0.1									0+		0+	0.1
41-47	47-54	0.1											0+	0.1
48-55	55-63	0+											0+	0+
56-63	64-72													
>63	>72													
TOTAL		3.6	1.5	2.7	2.4	2.7	5.4	9.6	10.6	14.3	18.1	16.0	4.6	99.9
										Percentage number of hours missed				0
								FEBRUARY						
Calm														1.1
1-3	1-3													11.5
4-6	4-7	0.5	0.2	0.3	0.4	0.4	1.3	2.9	2.9	4.2	2.4	1.4	0.5	17.4
7-10	8-12	1.0	0.4	0.6	0.8	0.6	1.4	3.5	3.4	4.0	3.3	3.8	1.2	24.0
11-16	13-18	1.4	1.2	1.4	1.5	1.4	1.1	1.9	1.8	2.1	4.0	5.5	2.4	25.7
17-21	19-24	1.5	0.5	0.7	1.0	1.1	0.2	0.4	0.3	1.1	1.5	3.0	0.9	12.2
22-27	25-31	1.0	0.8	0.5	1.0	0.6	0+	0.3	0+	0.2	0.5	0.7	0.4	6.0
28-33	32-38	0.3	0.4	0.3	0.1	0.1		0.2				0.1	0+	1.5
34-40	39-46	0.1	0.1	0.3	0.1	0+		0+						0.6
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.8	3.6	4.1	4.9	4.2	4.0	9.2	8.4	11.6	11.7	14.5	5.4	100.0
										Percentage number of hours missed				0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SOUTH SHIELDS *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°–010°	020°–040°	050°–070°	080°–100°	110°–130°	140°–160°	170°–190°	200°–220°	230°–250°	260°–280°	290°–310°	320°–350°	All directions Total
		MARCH												
Calm														1.3
1-3	1-3													12.5
4-6	4-7	0.7	0.9	0.8	1.2	1.9	2.2	3.1	2.6	2.5	1.0	1.2	0.7	18.8
7-10	8-12	0.7	0.7	1.3	1.7	2.3	3.4	3.5	2.9	2.3	2.5	2.0	1.3	24.6
11-16	13-18	1.1	0.9	1.6	2.1	3.8	2.6	1.7	1.9	2.5	3.7	3.1	1.7	26.7
17-21	19-24	0.8	0.8	0.5	0.9	2.1	0.4	0.3	0.3	1.0	1.6	1.2	1.1	11.0
22-27	25-31	0.7	0.2	0.1	0.9	0.6	0.1	0+	0+	0.3	0.4	0.5	0.5	4.3
28-33	32-38	0.2			0.1	0+				0.1	0+	0.1	0.2	0.7
34-40	39-46					0+					0.1			0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.2	3.5	4.3	6.9	10.7	8.7	8.6	7.7	8.7	9.3	8.1	5.5	100.0
		Percentage number of hours missed												0
		APRIL												
Calm														2.4
1-3	1-3													12.5
4-6	4-7	1.0	1.3	1.2	0.8	1.3	1.5	2.3	3.1	3.2	1.4	1.3	0.6	19.0
7-10	8-12	1.5	1.6	0.9	0.7	2.4	2.0	2.6	3.7	3.3	3.8	2.7	1.3	26.5
11-16	13-18	3.5	1.1	1.0	0.4	1.9	0.8	1.2	1.7	2.4	5.5	3.9	2.8	26.2
17-21	19-24	2.4	0.6	0.3	0.2	0.5	0.1	0.2	0.4	0.4	1.7	1.8	1.3	9.9
22-27	25-31	0.8	0.3	0.2	0.1				0+	0.1	0.4	0.7	0.5	3.1
28-33	32-38	0.1	0+	0.1							0+	0+	0.1	0.3
34-40	39-46	0.1											0+	0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		9.4	4.9	3.7	2.2	6.1	4.4	6.3	8.9	9.4	12.8	10.4	6.6	100.0
		Percentage number of hours missed												0+
		MAY												
Calm														2.7
1-3	1-3													14.4
4-6	4-7	1.6	2.0	1.8	1.6	2.2	1.5	1.7	1.9	1.7	1.0	0.9	0.8	18.7
7-10	8-12	2.9	2.1	1.8	1.4	2.9	2.2	2.3	1.9	1.8	2.2	1.8	1.5	24.8
11-16	13-18	2.9	3.1	1.5	1.1	3.2	1.6	1.4	1.6	1.8	4.2	2.8	1.7	26.9
17-21	19-24	2.0	1.6	0.4	0.3	0.7	0.2	0.2	0.4	0.6	1.3	1.0	0.8	9.5
22-27	25-31	0.6	0.6	0.3	0.1	0.1			0+	0.1	0.3	0.3	0.3	2.7
28-33	32-38	0.1	0.1	0.1						0+	0+		0+	0.3
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		10.1	9.5	5.9	4.5	9.1	5.5	5.6	5.8	6.0	9.0	6.8	5.1	100.0
		Percentage number of hours missed												0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SOUTH SHIELDS *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	350°–010°	020°–040°	050°–070°	080°–100°	110°–130°	140°–160°	170°–190°	200°–220°	230°–250°	260°–280°	290°–310°	320°–340°	All directions Total
		JUNE												
Calm														3.8
1-3	1-3													17.5
4-6	4-7	1.8	1.1	1.7	1.6	2.8	1.6	1.8	2.0	2.9	1.6	1.8	0.7	21.4
7-10	8-12	3.2	1.6	0.7	1.4	3.4	2.0	1.9	2.0	2.9	3.6	4.1	1.7	28.5
11-16	13-18	3.3	1.0	0.4	0.2	1.6	0.9	1.3	1.0	2.2	4.0	3.0	1.9	20.8
17-21	19-24	1.4	0.5	0.1	0.1	0.3	0+	0.1	0.1	0.5	1.0	1.1	0.7	5.9
22-27	25-31	0.3			0+	0.1				0.2	0.2	0.1	0.7	1.6
28-33	32-38	0.1								0+			0.3	0.4
34-40	39-46	0.1											0+	0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		10.2	4.2	2.9	3.3	8.2	4.5	5.1	5.1	8.7	10.4	10.1	6.0	100.0
		Percentage number of hours missed												0
		JULY												
Calm														3.4
1-3	1-3													15.6
4-6	4-7	1.6	1.2	1.0	1.5	2.7	1.6	2.3	2.3	2.8	2.0	1.8	1.0	21.8
7-10	8-12	2.7	1.2	0.9	0.7	3.4	1.7	2.4	2.5	3.4	5.2	4.3	2.0	30.4
11-16	13-18	1.8	0.6	0.1	0.1	1.3	0.6	1.4	1.0	2.1	6.3	4.6	2.1	22.0
17-21	19-24	0.7	0+		0+	0.1	0.1	0.2	0.2	0.5	2.4	1.1	0.7	6.0
22-27	25-31	0.3								0.1	0.4	0+	0+	0.8
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		7.1	3.0	2.0	2.3	7.5	4.0	6.3	6.0	8.9	16.3	11.8	5.8	100.0
		Percentage number of hours missed												0
		AUGUST												
Calm														3.1
1-3	1-3													19.4
4-6	4-7	1.5	1.3	0.7	0.9	2.4	2.0	2.7	3.4	3.8	2.3	1.6	0.9	23.5
7-10	8-12	1.8	1.5	0.6	0.4	2.5	1.8	2.4	3.2	3.9	5.1	2.6	1.2	27.0
11-16	13-18	1.6	0.4	0.5	0.3	1.9	1.4	1.3	1.2	2.0	5.6	2.4	1.9	20.5
17-21	19-24	0.7	0.3	0.1	0.1	0.1	0.1	0.2	0.1	0.5	1.0	0.7	0.6	4.5
22-27	25-31	0.5	0.1	0+	0+	0.1			0+	0.1	0.2	0.1	0.6	1.7
28-33	32-38	0.1								0.1	0+	0+	0+	0.2
34-40	39-46									0+				0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.2	3.6	1.9	1.7	7.0	5.3	6.6	7.9	10.4	14.2	7.4	5.2	99.9
		Percentage number of hours missed												0.1

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SOUTH SHIELDS *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							SEPTEMBER							
Calm														2.4
1-3	1-3													17.4
4-6	4-7	0.6	0.8	0.2	0.3	1.9	1.9	2.9	4.6	4.2	2.2	1.5	0.6	21.7
7-10	8-12	1.2	0.7	0.3	0.4	2.4	2.2	3.5	2.7	3.7	4.9	3.1	1.1	26.2
11-16	13-18	1.2	1.6	0.9	0.8	1.7	1.5	1.6	1.3	2.1	5.7	3.9	0.8	23.1
17-21	19-24	0.4	0.6	0.6	0.3	0+	0+	0.2	0.3	0.6	1.5	1.7	0.5	6.7
22-27	25-31	0.3	0.5	0.1				0.1	0.1	0.3	0.4	0.4	0.1	2.3
28-33	32-38	0+	0.1	0+				0+		0+	0+	0+		0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.7	4.3	2.1	1.8	6.0	5.6	8.3	9.0	10.9	14.7	10.6	3.1	99.9
Percentage number of hours missed														0
							OCTOBER							
Calm														1.7
1-3	1-3													15.3
4-6	4-7	0.4	0.2	0.2	0.2	0.8	1.6	4.3	5.1	4.1	2.4	1.0	0.4	20.7
7-10	8-12	0.4	0.3	0.3	0.6	1.4	1.7	4.2	4.3	5.8	4.6	2.2	0.4	26.2
11-16	13-18	0.6	0.6	0.6	0.3	1.0	1.2	1.9	2.3	3.4	7.0	4.0	1.1	24.0
17-21	19-24	0.4	0.3	0.2	0.1	0.4	0.6	0.5	0.3	0.8	2.0	1.7	0.4	7.7
22-27	25-31	0.5	0.2		0.1	0.2	0.6	0.2		0.1	0.2	0.7	0.3	3.1
28-33	32-38	0.4	0.4			0.1	0+					0.1	0.1	1.1
34-40	39-46		0+	0+		0.1	0.1							0.2
41-47	47-54		0+											0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.7	2.0	1.3	1.3	4.0	5.8	11.1	12.0	14.2	16.2	9.7	2.7	100.0
Percentage number of hours missed														0
							NOVEMBER							
Calm														0.4
1-3	1-3													11.3
4-6	4-7	0.3	0.2	0.3	0.1	0.3	1.2	4.9	5.2	4.6	2.5	1.1	0.7	21.4
7-10	8-12	0.7	0.5	0.6	0.4	0.6	2.4	5.4	4.2	4.3	4.5	3.0	1.4	28.0
11-16	13-18	1.3	0.6	1.3	1.5	1.4	2.2	2.5	1.0	1.9	5.5	4.2	2.1	25.5
17-21	19-24	0.6	0.8	0.8	0.6	0.8	0.8	0.3	0.1	0.2	1.4	1.4	1.0	8.8
22-27	25-31	0.3	0.4	0.3	0.6	0.3	0.3	0.2	0+	0.1	0.5	0.4	0.2	3.6
28-33	32-38	0+	0.2	0.1	0.1	0.1	0.2	0+		0+	0+	0+	0+	0.7
34-40	39-46	0+	0.1		0+	0.1	0.1				0+		0+	0.3
41-47	47-54	0+												0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.2	2.8	3.4	3.3	3.6	7.2	13.3	10.5	11.1	14.4	10.1	5.4	100.0
Percentage number of hours missed														0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SOUTH SHIELDS *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
		DECEMBER												
Calm														0.3
1-3	1-3													8.9
4-6	4-7	0+	0+	0.2	0.1	0.2	1.6	4.1	5.5	5.1	1.5	0.9	0.3	19.5
7-10	8-12	0.3	0.1	0.3	0.2	0.6	2.7	4.8	4.9	5.4	3.6	2.8	0.6	26.3
11-16	13-18	0.6	0.4	0.4	0.5	0.7	2.1	2.0	2.5	3.7	6.2	5.4	1.7	26.2
17-21	19-24	0.7	0.5	0.3	0.8	0.9	0.5	0.3	0.6	1.7	2.4	1.5	1.1	11.3
22-27	25-31	0.7	0.5	0.3	0.4	0.6	0.4	0+	0+	0.5	1.2	0.7	0.2	5.5
28-33	32-38	0.2	0+	0+	0.3	0.3	0.1			0.1	0.1	0.1	0.1	1.3
34-40	39-46	0+			0.2	0.2						0+		0.4
41-47	47-54				0+									0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.5	1.5	1.5	2.5	3.5	7.4	11.2	13.5	16.5	15.0	11.4	4.0	99.7
													Percentage number of hours missed	0.3
		YEAR												
Calm														2.0
1-3	1-3													13.7
4-6	4-7	0.8	0.8	0.7	0.7	1.4	1.6	3.0	3.6	3.7	1.9	1.3	0.6	20.1
7-10	8-12	1.4	0.9	0.7	0.7	1.9	2.1	3.4	3.3	3.9	4.0	3.0	1.2	26.5
11-16	13-18	1.7	1.0	0.9	0.8	1.7	1.5	1.7	1.6	2.5	5.5	4.1	1.8	24.8
17-21	19-24	1.0	0.6	0.4	0.4	0.6	0.3	0.3	0.3	0.7	1.7	1.6	0.8	8.7
22-27	25-31	0.5	0.3	0.2	0.3	0.3	0.1	0.1	0+	0.2	0.5	0.5	0.4	3.4
28-33	32-38	0.2	0.1	0+	0.1	0.1	0+	0+		0+	0+	0.1	0.1	0.7
34-40	39-46	0.1	0+	0+	0+	0+	0+	0+		0+	0+	0+	0+	0.1
41-47	47-54	0+	0+		0+								0+	0+
48-55	55-63	0+											0+	0+
56-63	64-72													
>63	>72													
TOTAL		5.7	3.7	2.9	3.0	6.0	5.6	8.5	8.8	11.0	13.6	10.6	4.9	100.0
													Percentage number of hours missed	0+

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

CRANWELL (53° 02′N, 00° 30′W) 1950-52, 1954, 1956-59

Height of vane:	1950-52	1953-59
above MSL	284′	288′
above ground	43′	47′
above building	27′	37′
effective height	33′	47′

Exposure was good from all directions except for winds from an easterly direction where minor obstructions may have had some slight effect. The surrounding country was open, level grassland with a slight upward slope for about a quarter of a mile to the north and south of the station.

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		JANUARY												
Calm														2.9
1-3	1-3													10.0
4-6	4-7	0.5	0.8	0.8	1.1	1.1	1.2	1.0	1.0	2.2	2.2	1.0	0.8	13.7
7-10	8-12	0.6	0.6	0.8	1.4	1.2	1.9	1.9	1.6	4.7	4.4	2.5	1.0	22.6
11-16	13-18	1.4	0.6	0.7	1.0	1.4	1.9	1.9	3.3	6.6	6.4	3.9	1.6	30.7
17-21	19-24	0.1	0.1	0.2	0.2	0.4	0.6	0.4	2.5	3.0	2.7	2.0	1.3	13.5
22-27	25-31	0.1				0.1	0.3	0.1	0.5	1.1	1.0	0.8	0.4	4.4
28-33	32-38								0.1	0.3	0.2	0.2	0.1	0.9
34-40	39-46									0+	0+			0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.7	2.1	2.5	3.7	4.2	5.9	5.3	9.0	17.9	16.9	10.4	5.2	98.7
		Percentage number of hours missed												1.3
		FEBRUARY												
Calm														5.2
1-3	1-3													12.6
4-6	4-7	1.0	1.6	1.0	0.5	1.0	1.3	1.2	1.9	2.7	2.2	1.1	1.4	16.9
7-10	8-12	1.3	1.8	1.5	0.7	0.8	1.5	1.6	3.2	5.5	3.8	2.2	2.0	25.9
11-16	13-18	0.9	1.0	0.7	0.8	0.7	1.6	1.8	2.8	5.7	4.0	3.5	1.4	24.9
17-21	19-24	0.2	0.2		0.1	0.3	0.4	0.6	1.5	3.1	1.7	1.8	0.5	10.4
22-27	25-31	0.1	0.1			0	0.1	0.4	0.7	0.8	0.6	0.2	0.3	3.3
28-33	32-38						0.1	0.2	0+	0+	0.1			0.4
34-40	39-46							0+	0.1	0+	0+			0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.5	4.7	3.2	2.1	2.8	5.0	5.8	10.2	17.8	12.4	8.8	5.6	99.7
		Percentage number of hours missed												0.3

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

CRANWELL *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							MARCH							
Calm														2.3
1-3	1-3													11.2
4-6	4-7	0.7	1.5	2.0	2.9	1.7	1.9	1.3	0.9	1.2	1.3	1.1	0.9	17.4
7-10	8-12	0.8	1.7	3.5	3.0	3.5	3.7	2.4	2.1	3.2	2.5	1.8	1.4	29.6
11-16	13-18	0.9	1.3	1.8	1.9	2.9	3.1	2.1	2.7	3.3	2.4	2.2	1.7	26.3
17-21	19-24	0.3	0.7	0.2	0.5	0.7	0.8	0.6	1.3	1.8	1.2	1.0	0.4	9.5
22-27	25-31	0.1	0.2		0+	0.1	0.1	0.1	0.4	0.7	0.7	0.5	0.1	3.0
28-33	32-38							0+	0.1	0.1	0+	0+		0.2
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.8	5.4	7.5	8.3	8.9	9.6	6.5	7.5	10.3	8.1	6.6	4.5	99.5
Percentage number of hours missed														0.5
							APRIL							
Calm														4.1
1-3	1-3													14.1
4-6	4-7	2.0	1.6	1.6	1.9	1.1	0.8	0.7	1.1	1.9	2.0	1.3	1.6	17.6
7-10	8-12	2.3	2.6	2.1	1.6	1.4	1.1	1.4	1.9	3.4	3.0	2.7	2.7	26.2
11-16	13-18	2.6	2.8	1.6	0.6	0.3	0.7	1.2	1.5	3.9	3.6	3.2	2.4	24.4
17-21	19-24	0.7	0.4	0.3	0+		0.4	0.6	0.9	1.1	1.7	1.2	1.0	8.3
22-27	25-31	0.2	0+				0.1	0.2	0.2	0.3	1.1	0.8	0.2	3.1
28-33	32-38	0.2						0+		0+		0.1	0.1	0.4
34-40	39-46	0+												0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		8.0	7.4	5.6	4.1	2.8	3.1	4.1	5.6	10.6	11.4	9.3	8.0	98.2
Percentage number of hours missed														1.7
							MAY							
Calm														5.0
1-3	1-3													14.0
4-6	4-7	1.2	2.3	1.8	1.6	1.5	1.2	1.2	1.2	1.6	1.3	0.8	1.1	16.8
7-10	8-12	1.2	3.4	3.8	2.2	1.6	2.1	2.0	2.3	3.7	3.3	1.4	1.7	28.7
11-16	13-18	1.7	2.3	3.2	1.4	0.8	1.0	1.7	2.7	3.7	2.6	1.5	1.5	24.1
17-21	19-24	0.3	0.3	0.1	0.1	0.2	0.3	0.8	0.7	0.8	0.9	0.8	0.3	5.6
22-27	25-31	0+	0+			0+	0+	0+	0+	0.2	0.3	0.1	0+	0.6
28-33	32-38									0+				0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.4	8.3	8.9	5.3	4.1	4.6	5.7	6.9	10.0	8.4	4.6	4.6	94.8
Percentage number of hours missed														5.1

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

CRANWELL *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350°–010°	020°–040°	050°–070°	080°–100°	110°–130°	140°–160°	170°–190°	200°–220°	230°–250°	260°–280°	290°–310°	320°–340°	All directions Total
							JUNE							
Calm														5.6
1-3	1-3													17.7
4-6	4-7	1.1	1.2	1.6	0.9	0.8	1.2	0.9	2.0	3.4	2.8	1.2	1.2	18.3
7-10	8-12	1.7	1.6	2.0	1.1	0.8	1.2	1.4	2.6	4.7	5.5	1.9	1.2	25.7
11-16	13-18	1.2	0.9	0.6	0.3	0.4	0.4	0.9	1.9	5.1	5.4	2.6	0.8	20.5
17-21	19-24	0.1	0.1		0+	0.1	0.1	0.3	0.5	1.0	1.5	0.6	0.3	4.6
22-27	25-31								0+	0.2	0.1	0+	0+	0.3
28-33	32-38											0+	0+	0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.1	3.8	4.2	2.3	2.1	2.9	3.5	7.0	14.4	15.3	6.3	3.5	92.7
Percentage number of hours missed														7.2
							JULY							
Calm														6.1
1-3	1-3													15.6
4-6	4-7	0.6	1.0	1.5	1.3	0.9	1.4	1.7	2.1	3.2	3.0	1.9	1.1	19.7
7-10	8-12	0.8	1.0	1.0	0.9	0.6	1.0	1.4	2.8	4.9	6.3	3.7	1.6	26.0
11-16	13-18	0.3	0.5	0.4	0+	0.3	0.4	1.1	3.2	6.3	6.1	3.4	1.6	23.6
17-21	19-24	0.2	0.1	0.1			0+	0.1	0.6	1.6	1.8	0.6	0.3	5.4
22-27	25-31								0+	0.4	0.2	0.1	0+	0.7
28-33	32-38									0+				0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.9	2.6	3.0	2.2	1.8	2.8	4.3	8.7	16.4	17.4	9.7	4.6	97.1
Percentage number of hours missed														2.8
							AUGUST							
Calm														5.8
1-3	1-3													15.8
4-6	4-7	0.4	0.8	1.2	1.2	1.0	1.2	1.8	2.3	4.1	4.2	1.7	1.0	20.9
7-10	8-12	0.4	0.5	0.4	0.6	1.0	1.5	2.8	3.4	6.4	4.7	1.8	1.0	24.5
11-16	13-18	0.3	0.2	0.1	0+	0.4	1.2	1.7	3.4	7.0	4.7	1.5	0.7	21.2
17-21	19-24	0+					0.1	0.3	0.8	1.2	1.3	0.4	0.3	4.4
22-27	25-31									0+	0.2	0.1	0+	0.3
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.1	1.5	1.7	1.8	2.4	4.0	6.6	9.9	18.7	15.1	5.5	3.0	92.9
Percentage number of hours missed														7.1

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

CRANWELL *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
								SEPTEMBER						
Calm														6.5
1-3	1-3													14.2
4-6	4-7	0.7	1.4	1.7	1.0	1.1	1.0	1.0	1.4	2.4	2.4	0.4	0.9	15.4
7-10	8-12	1.1	1.4	2.6	1.2	1.4	1.8	2.4	3.0	4.2	4.0	1.6	1.2	25.9
11-16	13-18	0.9	1.2	1.0	0.5	0.8	1.6	2.0	3.4	4.6	5.0	2.4	0.9	24.3
17-21	19-24	0.1	0.1	0.1	0+	0.2	0.4	0.6	1.3	1.8	2.4	1.2	0.3	8.3
22-27	25-31						0+	0.1	0.3	0.8	1.1	0.5	0.1	2.9
28-33	32-38									0.2	0.3	0+		0.5
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.8	4.1	5.4	2.7	3.5	4.8	6.1	9.4	14.0	15.2	6.1	3.4	98.2
									Percentage number of hours missed					1.7
								OCTOBER						
Calm														5.2
1-3	1-3													12.2
4-6	4-7	0.4	0.7	0.8	1.0	1.0	1.3	1.3	1.5	2.7	1.5	1.2	0.9	14.3
7-10	8-12	0.5	0.4	0.6	1.7	1.8	2.4	1.7	2.9	5.3	4.3	1.9	1.1	24.6
11-16	13-18	0.8	0.4	0.5	0.9	1.5	1.5	1.6	6.1	7.0	5.2	3.5	1.7	30.7
17-21	19-24	0.2	0.1	0.1	0.1	0.3	0.5	0.5	1.6	2.3	1.8	1.3	0.7	9.5
22-27	25-31		0+			0.1	0.1	0.1	0.4	0.5	0.4	0.5	0.4	2.5
28-33	32-38								0.1	0.2		0.1	0+	0.4
34-40	39-46										0+			0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.9	1.6	2.0	3.7	4.7	5.8	5.2	12.6	18.0	13.2	8.5	4.8	99.4
									Percentage number of hours missed					0.5
								NOVEMBER						
Calm														4.8
1-3	1-3													13.0
4-6	4-7	0.7	0.5	1.4	0.6	0.8	1.4	1.3	1.4	2.7	1.5	1.1	1.8	15.2
7-10	8-12	1.5	1.1	1.4	1.1	0.5	1.6	2.0	2.5	3.7	3.6	3.0	2.4	24.4
11-16	13-18	1.3	0.6	0.7	0.6	0.6	2.3	1.6	2.1	3.1	2.6	3.4	2.0	20.9
17-21	19-24	0.1	0.2	0+		0.3	1.2	0.6	0.5	1.3	1.8	0.9	0.4	7.3
22-27	25-31					0.4	0.3	0.3	0.3	0.7	0.7	0.4	0.2	3.3
28-33	32-38					0.1	0.1	0.2	0+	0.1	0+			0.5
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.6	2.4	3.5	2.3	2.7	6.9	6.0	6.8	11.6	10.2	8.8	6.8	89.4
									Percentage number of hours missed					10.5

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

CRANWELL *(contd)*

Mean wind speed		Percentage number of hours with winds from												All directions
knots	m.p.h.	350°–010°	020°–040°	050°–070°	080°–100°	110°–130°	140°–160°	170°–190°	200°–220°	230°–250°	260°–280°	290°–310°	320°–340°	Total
		DECEMBER												
Calm														2.3
1-3	1-3													11.1
4-6	4-7	0.9	0.8	0.5	0.4	0.7	1.4	1.6	1.8	2.4	1.2	0.9	0.4	13.0
7-10	8-12	0.5	0.6	0.4	1.0	1.1	2.1	2.7	2.9	5.1	3.9	1.9	0.9	23.1
11-16	13-18	0.7	0.5	0.1	0.6	1.4	2.0	2.4	3.8	5.8	4.9	2.4	1.4	26.0
17-21	19-24	0.2	0.1		0+	1.1	0.8	1.1	3.0	3.0	3.2	0.8	0.5	13.8
22-27	25-31	0.1				0.3	0.4	0.3	1.8	1.5	1.5	0.5	0.3	6.7
28-33	32-38							0.1	0.2	0.1	0.4	0.4	0.1	1.3
34-40	39-46							0+			0.2			0.2
41-47	47-54										0+			0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.4	2.0	1.0	2.0	4.6	6.7	8.2	13.5	17.9	15.3	6.9	3.6	97.5
Percentage number of hours missed														2.4
		YEAR												
Calm														4.6
1-3	1-3													13.5
4-6	4-7	0.8	1.2	1.3	1.2	1.1	1.3	1.3	1.6	2.5	2.1	1.1	1.1	16.6
7-10	8-12	1.0	1.4	1.7	1.4	1.3	1.8	2.0	2.6	4.6	4.1	2.2	1.5	25.6
11-16	13-18	1.1	1.0	1.0	0.7	1.0	1.5	1.7	3.1	5.2	4.4	2.8	1.5	25.0
17-21	19-24	0.2	0.2	0.1	0.1	0.3	0.5	0.5	1.3	1.8	1.8	1.1	0.5	8.4
22-27	25-31	0+	0+		0+	0.1	0.1	0.1	0.4	0.6	0.7	0.4	0.2	2.6
28-33	32-38	0+				0+	0+	0+	0.1	0.1	0.1	0.1	0+	0.4
34-40	39-46	0+						0+	0+	0+	0+			0+
41-47	47-54									0+				0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.1	3.8	4.1	3.4	3.8	5.2	5.6	9.1	14.8	13.2	7.7	4.8	96.7
Percentage number of hours missed														3.3

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

MILDENHALL (52° 22′N, 00° 28′E) 1950-59

Height of vane	
above MSL	98′
above ground	83′
above building	45′
effective height	60′

Exposure was good as the anemometer stood on the eastern edge of the Cambridgeshire Fen with the countryside very flat for miles around. A row of poplar trees up to 80 feet in height and 40 to 70 yards distant probably provided some shelter, with an increase in gustiness, for winds from between 275 and 335 degrees.

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		JANUARY												
Calm														1.7
1-3	1-3													15.2
4-6	4-7	0.9	1.2	1.4	1.1	1.4	1.0	1.8	2.8	4.2	1.4	1.5	1.7	20.4
7-10	8-12	1.1	1.3	1.8	1.4	0.9	0.9	2.3	4.0	6.0	3.5	2.3	2.0	27.5
11-16	13-18	0.6	0.7	1.1	1.1	1.0	1.2	2.2	4.3	6.2	3.7	2.2	1.5	25.8
17-21	19-24	0.1	0.1	0.4	0.4	0.1	0.2	0.2	1.0	1.8	1.7	0.4	0.2	6.6
22-27	25-31		0.1	0.1	0.2	0.1	0+	0+	0.3	0.4	0.8	0.1	0.2	2.3
28-33	32-38								0.1	0.2	0.1	0.1	0+	0.5
34-40	39-46										0+			0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.7	3.4	4.8	4.2	3.5	3.3	6.5	12.5	18.8	11.2	6.6	5.6	100.0
Percentage number of hours missed														0+
		FEBRUARY												
Calm														4.0
1-3	1-3													14.1
4-6	4-7	1.4	3.1	1.2	0.9	1.0	1.9	2.5	2.9	2.6	1.6	1.7	1.5	22.3
7-10	8-12	1.9	1.8	1.6	0.7	0.7	1.4	2.6	5.0	4.8	2.9	2.2	2.0	27.6
11-16	13-18	1.4	1.3	1.6	0.5	0.7	1.0	1.5	3.5	4.8	3.5	2.6	2.0	24.4
17-21	19-24	0.5	0.1	0.4	0.1	0.1	0.2	0.4	1.0	1.7	0.7	0.5	0.2	5.9
22-27	25-31		0+	0.2			0.1	0.1	0.3	0.5	0.3	0.1	0.1	1.7
28-33	32-38						0+		0+	0+	0+	0+		0+
34-40	39-46											0+	0+	0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.2	6.3	5.0	2.2	2.5	4.6	7.1	12.7	14.4	9.0	7.1	5.8	100.0
Percentage number of hours missed														0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

MILDENHALL *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							MARCH							
Calm														2.0
1-3	1-3													16.9
4-6	4-7	1.2	1.7	1.8	2.5	4.0	2.6	2.4	1.8	1.6	1.7	1.4	1.4	24.1
7-10	8-12	2.0	2.0	2.4	2.7	3.4	3.0	2.7	2.8	2.4	1.9	1.4	1.1	27.8
11-16	13-18	1.2	1.4	1.5	1.7	2.3	2.0	2.0	2.3	2.5	2.4	1.5	1.2	22.0
17-21	19-24	0.1	0.4	1.0	0.3	0.4	0.3	0.2	0.6	1.1	0.8	0.3	0.4	5.9
22-27	25-31	0+	0+	0.2	0+		0.1	0+	0.2	0.5	0.1			1.2
28-33	32-38		0+	0+						0.1	0+			0.1
34-40	39-46								0+	0+				0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.5	5.5	6.9	7.2	10.1	8.0	7.3	7.7	8.2	6.9	4.6	4.2	100.0
								Percentage number of hours missed						0+
							APRIL							
Calm														1.1
1-3	1-3													17.8
4-6	4-7	1.9	3.7	2.6	1.7	1.6	2.2	2.6	1.4	1.9	1.7	1.4	1.9	24.6
7-10	8-12	2.3	3.1	2.7	2.1	0.9	1.4	2.3	3.5	3.6	2.7	2.2	2.0	28.8
11-16	13-18	2.2	2.3	2.2	0.9	0.7	0.6	2.1	2.8	2.8	2.7	1.7	1.2	22.2
17-21	19-24	0.2	0.3	0.2	0.1	0+	0+	0.4	0.7	0.8	0.7	0.9	0.2	4.5
22-27	25-31	0.1					0+	0+		0.1	0.2	0.1	0.2	0.7
28-33	32-38	0+									0.1		0+	0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.7	9.4	7.7	4.8	3.2	4.2	7.4	8.4	9.2	8.1	6.3	5.5	99.8
								Percentage number of hours missed						0.1
							MAY							
Calm														1.0
1-3	1-3													18.1
4-6	4-7	2.1	2.1	2.8	2.0	2.1	1.6	1.8	2.3	2.5	1.7	1.4	2.2	24.6
7-10	8-12	3.0	2.5	2.8	2.4	2.0	1.6	2.1	3.2	4.0	2.2	1.3	2.1	29.2
11-16	13-18	2.2	2.7	1.4	1.3	0.7	0.9	1.1	3.1	4.0	2.2	1.5	0.9	22.0
17-21	19-24	0.3	0.6	0.3	0.4	0.1	0.1	0.5	0.7	0.5	0.6	0.1	0+	4.2
22-27	25-31	0.1	0.1	0+				0.1	0.1	0.1	0.2		0+	0.7
28-33	32-38								0+	0.1	0+	0+		0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		7.7	8.0	7.3	6.1	4.9	4.2	5.6	9.4	11.2	6.9	4.3	5.2	99.9
								Percentage number of hours missed						0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

MILDENHALL *(contd)*

Mean wind speed		Percentage number of hours with winds from												All directions
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	Total
								JUNE						
Calm														2.0
1-3	1-3													22.4
4-6	4-7	2.1	2.2	1.6	1.5	1.7	1.7	2.1	3.5	4.5	2.8	2.0	2.5	28.2
7-10	8-12	2.8	2.0	1.9	1.7	1.1	0.7	1.4	3.5	5.2	3.7	2.2	1.7	27.9
11-16	13-18	1.0	0.6	1.2	1.0	0.6	0.2	0.8	2.5	3.6	2.6	1.5	0.9	16.5
17-21	19-24	0.1	0+		0.1	0.1	0+	0.1	0.4	0.7	0.2	0.1	0.1	1.9
22-27	25-31									0.1	0+			0.1
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.0	4.8	4.7	4.3	3.5	2.6	4.4	9.9	14.1	9.3	5.8	5.2	99.0
									Percentage number of hours missed					0.9
								JULY						
Calm														3.0
1-3	1-3													24.1
4-6	4-7	2.5	1.9	1.1	1.1	1.2	1.4	1.8	2.8	3.8	3.3	2.8	2.8	26.5
7-10	8-12	1.9	2.3	0.7	0.5	0.7	1.1	2.1	4.0	5.5	4.7	2.8	1.9	28.2
11-16	13-18	1.0	0.7	0.4	0.1	0.1	0.3	0.8	2.1	4.9	3.8	1.3	0.5	16.0
17-21	19-24	0+	0+				0+	0+	0.4	0.9	0.5			1.8
22-27	25-31		0+				0+		0+	0.2	0.1			0.3
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.4	4.9	2.2	1.7	2.0	2.8	4.7	9.3	15.3	12.4	6.9	5.2	99.9
									Percentage number of hours missed					0
								AUGUST						
Calm														2.9
1-3	1-3													28.6
4-6	4-7	1.0	1.1	1.0	1.3	1.8	1.6	2.1	4.5	5.0	3.6	2.9	1.7	27.6
7-10	8-12	1.3	0.9	0.8	0.6	1.0	1.1	1.9	4.3	5.6	3.4	1.9	1.2	24.0
11-16	13-18	1.0	0.6	0.2	0.1	0.1	0.5	1.0	3.0	4.2	2.9	1.2	0.4	15.2
17-21	19-24	0+	0.1	0+					0.3	0.4	0.4	0.2		1.4
22-27	25-31									0.1	0.1	0+		0.2
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.3	2.7	2.0	2.0	2.9	3.2	5.0	12.1	15.3	10.4	6.2	3.3	99.9
									Percentage number of hours missed					0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

MILDENHALL *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
								SEPTEMBER						
Calm														3.3
1-3	1-3													22.2
4-6	4-7	1.6	1.9	1.3	1.8	2.6	1.6	2.4	3.5	4.4	2.8	1.5	1.2	26.6
7-10	8-12	0.7	1.5	1.3	0.7	1.5	1.3	1.8	4.3	5.5	4.6	2.6	1.1	26.9
11-16	13-18	0.4	0.6	0.6	0.4	0.5	0.4	1.6	3.3	4.0	3.3	1.7	0.2	17.0
17-21	19-24	0+	0+		0+		0+	0+	1.0	1.2	0.4	0.4	0+	3.0
22-27	25-31								0.2	0.4	0.3			0.9
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.7	4.0	3.2	2.9	4.6	3.3	5.8	12.3	15.5	11.4	6.2	2.5	99.9
										Percentage number of hours missed				0
								OCTOBER						
Calm														4.3
1-3	1-3													22.3
4-6	4-7	1.1	0.9	0.8	1.5	2.5	1.8	2.3	3.7	4.3	2.3	2.0	2.2	25.4
7-10	8-12	0.9	0.5	0.7	1.4	1.5	1.4	1.6	4.1	6.0	3.6	2.2	1.7	25.6
11-16	13-18	0.6	0.3	0.3	0.4	0.6	0.8	1.1	3.1	5.5	2.6	1.6	1.3	18.2
17-21	19-24	0.4	0+	0.1	0.1	0.1	0.3	0.3	0.6	0.6	0.5	0.2	0.1	3.3
22-27	25-31	0.1			0+	0+	0.1		0.2	0.2	0.2	0+	0+	0.8
28-33	32-38								0+	0+	0+			0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.1	1.7	1.9	3.4	4.7	4.4	5.3	11.7	16.6	9.2	6.0	5.3	99.9
										Percentage number of hours missed				0
								NOVEMBER						
Calm														3.9
1-3	1-3													17.2
4-6	4-7	1.8	1.0	0.7	1.7	2.1	2.4	3.0	3.0	3.1	1.7	2.1	2.7	25.3
7-10	8-12	1.1	1.5	0.9	1.1	1.4	2.2	3.7	3.8	4.7	3.1	2.1	2.3	27.9
11-16	13-18	0.8	0.3	0.6	0.7	1.1	2.4	2.7	3.1	3.3	2.4	1.3	1.0	19.7
17-21	19-24	0.1	0.1	0.1		0.2	0.7	0.3	1.1	1.0	0.6	0.3	0.3	4.8
22-27	25-31						0.1	0.1	0.3	0.3	0.2	0+	0+	1.0
28-33	32-38										0+	0.1	0+	0.1
34-40	39-46									0+				0+
41-47	47-54									0+				0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.8	2.9	2.3	3.5	4.8	7.8	9.8	11.3	12.4	8.0	5.9	6.3	99.9
										Percentage number of hours missed				0.1

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

MILDENHALL *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							DECEMBER							
Calm														2.9
1-3	1-3													15.7
4-6	4-7	0.6	1.0	0.6	1.1	1.2	1.7	2.8	3.6	2.9	1.6	1.0	0.8	18.9
7-10	8-12	0.3	0.9	1.0	1.0	1.5	1.9	3.5	5.8	5.5	3.3	1.9	1.2	27.8
11-16	13-18	0.2	0.5	0.8	0+	1.1	1.7	2.5	5.3	5.2	3.5	2.3	0.8	23.9
17-21	19-24	0+	0.1	0.1	0.1	0.5	0.2	0.5	2.0	2.1	1.0	0.8	0.2	7.6
22-27	25-31					0.1	0.1	0.1	0.7	1.0	0.3	0.3	0.1	2.7
28-33	32-38						0+		0.1	0.1	0.1	0.1	0+	0.4
34-40	39-46											0+		0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.1	2.5	2.5	2.2	4.4	5.6	9.4	17.5	16.8	9.8	6.4	3.1	99.9
									Percentage number of hours missed					0
							YEAR							
Calm														2.7
1-3	1-3													19.7
4-6	4-7	1.5	1.8	1.4	1.5	1.9	1.8	2.3	3.0	3.4	2.2	1.8	1.9	24.5
7-10	8-12	1.6	1.7	1.5	1.4	1.4	1.5	2.3	4.0	4.9	3.3	2.1	1.7	27.4
11-16	13-18	1.0	1.0	1.0	0.7	0.8	1.0	1.6	3.2	4.3	3.0	1.7	1.0	20.3
17-21	19-24	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.8	1.1	0.7	0.3	0.1	4.1
22-27	25-31	0+	0+	0+	0+	0+	0+	0.1	0.2	0.3	0.2	0.1	0.1	1.0
28-33	32-38	0+	0+	0+			0+		0+	0.1	0+	0+	0+	0.1
34-40	39-46								0+	0+	0+	0+	0+	0+
41-47	47-54									0+				0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.2	4.7	4.1	3.7	4.2	4.5	6.5	11.2	14.1	9.4	6.0	4.8	99.8
									Percentage number of hours missed					0.1

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

FELIXSTOWE (51° 57′N, 01° 20′E) 1950-52, 1954-55, 1957-59

Height of vane:	
above MSL	85′
above ground	75′
above building	60′
effective height	65′

The surrounding area for about 1½ miles was flat giving good exposure to the instrument from all directions except for a line of buildings 30-100ft to the west which tended to obstruct winds from between west and north-west.

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		JANUARY												
Calm														2.2
1-3	1-3													12.5
4-6	4-7	1.1	0.5	0.4	0.3	0.4	0.5	0.7	2.0	1.9	1.5	1.1	0.6	11.0
7-10	8-12	1.5	1.8	1.1	0.4	0.6	1.0	1.3	3.8	3.0	2.6	2.7	0.8	20.6
11-16	13-18	1.3	1.6	1.7	0.7	1.3	2.4	4.9	5.7	3.3	4.9	4.1	1.8	33.7
17-21	19-24	0.4	0.4	0.9	1.6	0.6	1.1	1.6	2.0	1.2	2.0	1.4	0.5	13.7
22-27	25-31		0+	0.1	1.4	0.3	0.2	0.7	0.5	0.2	1.0	0.3	0.1	4.8
28-33	32-38	0.1			0.3	0.1		0+	0+		0.1	0.1		0.7
34-40	39-46											0+		0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.4	4.3	4.2	4.7	3.3	5.2	9.2	14.0	9.6	12.1	9.7	3.8	99.2
		Percentage number of hours missed												0.7
		FEBRUARY												
Calm														3.0
1-3	1-3													16.6
4-6	4-7	1.0	1.1	0.7	0.5	0.4	1.1	1.6	2.3	2.3	1.9	1.0	1.0	14.9
7-10	8-12	1.2	1.2	0.6	0.8	0.6	1.2	3.8	4.3	3.6	3.0	1.8	1.9	24.0
11-16	13-18	0.7	0.6	1.1	1.4	0.6	1.6	3.2	4.1	3.2	4.4	2.7	2.0	25.6
17-21	19-24	0.1	0+	1.2	2.1	0.3	0.6	1.6	1.7	1.2	0.8	1.2	0.7	11.5
22-27	25-31	0.1	0+	0.2	1.3	0.2	0.3	0.6	0.5	0.3	0.1	0.1	0+	3.7
28-33	32-38	0+	0.1		0+		0.1	0.2	0.1	0+	0+			0.5
34-40	39-46						0.1	0+						0.1
41-47	47-54						0+							0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.1	3.0	3.8	6.1	2.1	5.0	11.0	13.0	10.6	10.2	6.8	5.6	99.9
		Percentage number of hours missed												0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

FELIXSTOWE *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°–010°	020°–040°	050°–070°	080°–100°	110°–130°	140°–160°	170°–190°	200°–220°	230°–250°	260°–280°	290°–310°	320°–340°	All directions Total
		MARCH												
Calm														2.4
1-3	1-3													17.0
4-6	4-7	1.3	0.9	0.8	1.0	1.3	1.0	1.4	1.5	0.9	1.4	1.4	1.1	14.0
7-10	8-12	1.9	2.0	2.0	2.1	1.3	2.0	2.6	2.6	1.5	2.0	1.5	1.5	23.0
11-16	13-18	1.8	3.0	3.4	2.2	1.6	3.1	3.8	2.5	2.4	2.8	1.4	1.0	29.0
17-21	19-24	0.4	0.6	1.7	1.1	0.5	0.8	0.8	1.0	0.5	0.9	0.6	0.4	9.3
22-27	25-31	0+	0.8	0.7	1.1	0.1	0.1	0.4	0.5	0.3	0+	0+	0.2	4.2
28-33	32-38		0.4	0+	0+		0+	0+	0+					0.4
34-40	39-46		0.1											0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.4	7.8	8.6	7.5	4.8	7.0	9.0	8.1	5.6	7.1	4.9	4.2	99.4
		Percentage number of hours missed												0.6
		APRIL												
Calm														2.5
1-3	1-3													19.1
4-6	4-7	2.0	2.2	1.7	0.7	0.9	1.0	1.2	1.2	2.1	1.9	1.5	1.3	17.7
7-10	8-12	3.1	3.4	2.5	1.4	1.0	1.2	2.2	2.3	2.3	2.8	2.4	1.5	26.1
11-16	13-18	1.7	3.7	2.1	2.1	0.3	0.8	2.5	2.4	2.2	2.4	1.7	2.1	24.0
17-21	19-24	0.4	1.1	1.3	0.4	0+	0.1	0.7	0.9	0.8	1.1	1.0	0.8	8.6
22-27	25-31	0.1	0.1	0.1			0+	0.2	0.3	0.2	0.3	0.5	0.1	1.9
28-33	32-38	0.1						0+						0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		7.4	10.5	7.7	4.6	2.2	3.1	6.8	7.1	7.6	8.5	7.1	5.8	100.0
		Percentage number of hours missed												0+
		MAY												
Calm														2.2
1-3	1-3													14.6
4-6	4-7	2.2	1.7	2.0	1.5	1.0	1.1	1.0	1.0	1.0	1.1	1.1	1.0	15.7
7-10	8-12	3.2	2.2	2.7	2.1	0.7	1.8	2.5	1.9	2.0	2.3	1.3	1.6	24.3
11-16	13-18	3.7	4.5	3.4	2.9	0.9	1.1	3.2	3.2	2.6	2.6	2.4	1.9	32.4
17-21	19-24	0.5	2.0	1.5	0.4	0.1	0.2	0.8	0.9	0.7	0.8	0.4	0.7	9.0
22-27	25-31	0.1	0.3	0.3	0+	0+	0+	0+	0.3	0.2	0.2	0.2	0.1	1.7
28-33	32-38								0.1			0+	0+	0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		9.7	10.7	9.9	6.9	2.7	4.2	7.5	7.4	6.5	7.0	5.4	5.3	100.0
		Percentage number of hours missed												0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

FELIXSTOWE *(contd)*

Mean wind speed knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							JUNE							
Calm														3.4
1-3	1-3													16.6
4-6	4-7	0.8	0.8	1.1	1.7	1.2	1.0	1.1	1.4	1.8	2.4	1.4	1.1	15.8
7-10	8-12	0.9	1.7	2.8	2.3	1.0	1.6	2.4	2.8	3.4	3.7	1.7	1.5	25.8
11-16	13-18	0.9	2.6	3.6	2.8	0.5	1.0	2.7	4.1	4.6	3.9	2.5	0.9	30.1
17-21	19-24	0.1	0.6	1.2	0.7	0.3	0.1	0.5	1.0	1.0	0.8	0.7	0.1	7.1
22-27	25-31			0+	0.1	0.1	0+	0.1	0.3	0.1		0+	0.1	0.8
28-33	32-38							0+	0.1					0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.7	5.7	8.7	7.6	3.1	3.7	6.8	9.7	10.9	10.8	6.3	3.7	99.7
										Percentage number of hours missed				0.2
							JULY							
Calm														4.0
1-3	1-3													16.1
4-6	4-7	1.1	1.4	1.3	1.5	1.7	1.9	1.4	1.1	1.6	2.3	2.3	1.4	19.0
7-10	8-12	0.8	1.4	1.8	1.6	1.7	1.8	1.9	2.3	3.3	3.4	2.0	1.6	23.6
11-16	13-18	0.8	1.5	2.8	1.2	0.5	0.7	2.1	3.8	4.8	5.1	3.5	1.4	28.2
17-21	19-24	0.2	0.5	0.2	0.3	0+	0.2	0.4	1.6	1.2	0.9	1.3	0.2	7.0
22-27	25-31		0.1	0+			0+	0.3	0.5	0.4	0.2	0.1	0.1	1.7
28-33	32-38								0.1					0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.9	4.9	6.1	4.6	3.9	4.6	6.1	9.4	11.3	11.9	9.2	4.7	99.7
										Percentage number of hours missed				0.4
							AUGUST							
Calm														4.0
1-3	1-3													18.5
4-6	4-7	0.9	0.9	1.1	1.1	1.0	1.2	1.6	2.0	2.3	2.3	2.1	1.5	18.0
7-10	8-12	0.8	0.8	1.7	2.1	1.5	2.0	2.2	4.0	3.9	2.8	2.2	1.5	25.5
11-16	13-18	0.7	0.7	1.6	1.9	0.6	1.3	3.5	5.9	3.4	2.8	1.6	1.1	25.1
17-21	19-24	0.2	0.1	0.2	0.5	0.1	0.2	1.2	2.2	1.0	0.8	0.6	0.5	7.6
22-27	25-31						0.1	0.3	0.6	0.1	0.2	0+		1.3
28-33	32-38						0+	0+	0+					0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.6	2.5	4.6	5.6	3.2	4.8	8.8	14.7	10.7	8.9	6.5	4.6	100.0
										Percentage number of hours missed				0

TABLE X - PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

FELIXSTOWE *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		SEPTEMBER												
Calm														3.6
1-3	1-3													12.4
4-6	4-7	2.4	1.2	0.6	0.4	0.5	0.7	0.6	1.0	1.5	1.8	2.0	1.8	14.5
7-10	8-12	3.4	1.6	1.5	0.9	0.7	0.7	1.2	2.0	3.7	3.9	3.3	2.7	25.6
11-16	13-18	0.7	2.4	2.3	1.4	1.0	0.5	1.9	3.5	6.5	5.7	3.5	2.3	31.7
17-21	19-24	0.1	0.5	0.5	0.4	0.2	0.3	1.1	1.3	2.6	1.4	0.9	0.4	9.7
22-27	25-31		0+	0.1	0+		0.1	0.4	0.6	0.4	0.4	0.1	0.1	2.2
28-33	32-38								0.1	0.1	0.1			0.3
34-40	39-46									0.1				0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.6	5.7	5.0	3.1	2.4	2.3	5.2	8.5	14.9	13.3	9.8	7.3	100.1
Percentage number of hours missed														0
		OCTOBER												
Calm														4.7
1-3	1-3													13.4
4-6	4-7	1.2	0.3	0.4	0.7	1.1	1.1	0.8	1.6	1.6	1.8	2.0	1.5	14.1
7-10	8-12	1.0	0.5	0.6	1.4	1.5	1.3	1.1	3.3	3.9	3.5	3.3	2.3	23.7
11-16	13-18	1.0	0.2	1.5	2.2	1.6	1.1	1.1	5.8	5.4	4.3	3.9	2.0	30.1
17-21	19-24	0.1	0.2	0.6	0.9	0.6	0.5	0.9	1.8	1.2	1.5	1.2	0.5	10.0
22-27	25-31	0.1	0.3	0.3	0.2	0.3	0.2	0.3	0.5	0.3	0.1	0.4	0.4	3.4
28-33	32-38		0.1			0.2	0+	0+	0.2	0+		0.1	0+	0.6
34-40	39-46					0+			0+					0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.4	1.6	3.4	5.4	5.3	4.2	4.2	13.2	12.4	11.2	10.9	6.7	100.0
Percentage number of hours missed														0
		NOVEMBER												
Calm														4.0
1-3	1-3													13.4
4-6	4-7	1.5	1.1	0.6	0.2	0.6	0.9	0.8	1.4	1.3	1.9	1.8	1.7	13.8
7-10	8-12	2.9	1.6	0.8	0.6	1.2	1.0	2.6	2.6	2.3	2.8	3.4	2.9	24.7
11-16	13-18	1.5	0.7	1.3	1.4	1.0	1.8	4.2	3.3	3.0	2.7	4.1	2.2	27.2
17-21	19-24	0.1	0.4	1.0	0.9	0.4	1.0	1.9	1.9	1.3	0.9	0.8	0.6	11.2
22-27	25-31		0.1	0.4	0.5	0.1	0.7	1.2	0.6	0.2	0.2	0.3	0.3	4.6
28-33	32-38			0.2			0.1	0.2	0.1	0+	0.1		0+	0.7
34-40	39-46						0.1	0.1	0.1		0+	0+		0.3
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.0	3.9	4.3	3.6	3.3	5.6	11.0	10.0	8.1	8.6	10.4	7.7	99.9
Percentage number of hours missed														0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

FELIXSTOWE *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
								DECEMBER						
Calm														3.2
1-3	1-3													15.2
4-6	4-7	1.1	0.2	0.3	0.1	0.4	0.7	1.1	1.9	2.7	1.7	1.5	1.9	13.6
7-10	8-12	0.7	0.6	0.2	0.2	0.8	1.2	2.1	3.5	4.1	2.9	2.0	1.6	19.9
11-16	13-18	0.5	1.2	0.8	0.4	1.3	1.7	4.2	4.4	4.7	4.9	2.8	1.4	28.3
17-21	19-24	0.2	0.9	1.4	0.1	0.3	1.3	2.0	2.2	1.5	2.6	1.4	0.3	14.2
22-27	25-31	0+	0.1	0.5	0+	0.2	0.6	0.6	0.6	0.1	0.6	0.7	0.1	4.1
28-33	32-38				0+	0.5	0.1	0.2	0+	0+	0.2	0.4	0.1	1.5
34-40	39-46						0+	0+				0+	0+	0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.5	3.0	3.2	0.8	3.5	5.6	10.2	12.6	13.1	12.9	8.8	5.4	100.0
											Percentage number of hours missed			0.1
								YEAR						
Calm														3.3
1-3	1-3													15.4
4-6	4-7	1.4	1.0	0.9	0.8	0.9	1.0	1.1	1.5	1.8	1.8	1.6	1.3	15.1
7-10	8-12	1.8	1.6	1.5	1.3	1.1	1.4	2.2	3.0	3.1	3.0	2.3	1.8	24.1
11-16	13-18	1.3	1.9	2.1	1.7	0.9	1.4	3.1	3.9	3.8	3.9	2.9	1.7	28.6
17-21	19-24	0.2	0.6	1.0	0.8	0.3	0.5	1.1	1.5	1.2	1.2	1.0	0.5	9.9
22-27	25-31	0+	0.2	0.2	0.4	0.1	0.2	0.4	0.5	0.2	0.3	0.2	0.1	2.8
28-33	32-38	0+	0.1	0+	0+	0.1	0+	0.1	0.1	0+	0+	0.1	0+	0.5
34-40	39-46		0+			0+	0+	0+	0+	0+	0+	0+	0+	0+
41-47	47-54						0+	0+				0+		0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.7	5.4	5.7	5.0	3.4	4.5	8.0	10.5	10.1	10.2	8.1	5.4	99.7
											Percentage number of hours missed			0.2

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

DUNSTABLE (51° 53′N, 00° 33′W) 1951-52, 1955-59

Height of vane	
above MSL	567′
above ground	55′
above building	46′
effective height	33′

The anemometer was well exposed from all directions except for a line of deciduous trees 600 ft to the south-west, about 60 ft in height. which probably affected winds from that direction, especially during the summer months.

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
								JANUARY						
Calm														1.8
1-3	1-3													10.3
4-6	4-7	0.9	1.2	1.0	0.7	1.2	1.0	1.1	2.2	4.8	3.1	1.0	0.7	18.9
7-10	8-12	0.7	1.3	1.9	1.0	0.9	1.2	2.5	4.1	5.2	3.2	1.6	1.7	25.3
11-16	13-18	0.3	1.7	0.8	0.6	0.5	1.6	5.4	6.9	4.2	2.4	1.9	0.9	27.2
17-21	19-24	0.4	0.3	0.1	0.4	0.1	0.2	0.4	1.6	1.4	1.2	0.8	0.3	7.2
22-27	25-31	0+	0+	0.1	0+	0+		0.1	0.3	0.5	0.3	0.1	0+	1.4
28-33	32-38									0+				0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.3	4.5	3.9	2.7	2.7	4.0	9.5	15.1	16.1	10.2	5.4	3.6	92.1
Percentage number of hours missed														7.8
								FEBRUARY						
Calm														1.1
1-3	1-3													14.0
4-6	4-7	1.4	1.9	2.7	0.9	1.2	0.7	1.2	3.8	6.0	2.9	1.9	1.5	26.1
7-10	8-12	1.4	2.5	4.9	0.9	0.8	1.0	1.9	3.3	5.1	4.1	1.7	1.8	29.4
11-16	13-18	0.7	1.4	2.7	1.2	0.9	1.5	1.5	2.4	3.1	3.0	2.4	1.0	21.8
17-21	19-24	0.1	0.1	0.1	0+	0+	0.3	0.5	0.9	0.6	0.6		0+	3.2
22-27	25-31		0.1	0.1				0+	0.1	0.3	0+	0+		0.6
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.6	6.0	10.5	3.0	2.9	3.5	5.1	10.5	15.1	10.6	6.0	4.3	96.2
Percentage number of hours missed														3.9

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

DUNSTABLE *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		MARCH												
Calm														0.6
1-3	1-3													12.3
4-6	4-7	0.8	2.0	3.0	2.7	2.9	1.7	1.8	2.1	2.0	1.4	0.7	0.8	21.9
7-10	8-12	1.0	2.3	3.8	4.2	3.4	3.2	4.2	2.4	2.7	1.3	0.7	1.1	30.3
11-16	13-18	0.3	2.2	2.8	1.9	1.4	1.8	2.3	2.4	3.7	1.6	0.8	0.4	21.6
17-21	19-24		0.6	0.5	0.3	0.1	0+	0.1	0.2	1.5	0.3	0.2	0.1	3.9
22-27	25-31		0.2		0+					0.2	0+	0+		0.4
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.1	7.3	10.1	9.1	7.8	6.7	8.4	7.1	10.1	4.6	2.4	2.4	91.0
		Percentage number of hours missed												8.9
		APRIL												
Calm														1.6
1-3	1-3													13.9
4-6	4-7	1.1	3.5	3.2	1.0	1.6	1.2	1.0	2.8	3.6	1.7	1.0	1.0	22.7
7-10	8-12	2.5	4.6	3.7	1.1	1.9	1.1	1.9	3.2	4.6	2.5	1.8	1.8	30.7
11-16	13-18	1.5	5.8	1.4	0.1	0.1	0.6	1.7	2.1	3.3	2.8	1.5	0.9	21.8
17-21	19-24	0.9	0.1			0+		0.1	0.3	0.3	0.4	0.3	0+	2.4
22-27	25-31								0+		0+			0+
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.0	14.0	8.3	2.2	3.6	2.9	4.7	8.4	11.8	7.4	4.6	3.7	93.1
		Percentage number of hours missed												6.7
		MAY												
Calm														1.2
1-3	1-3													20.5
4-6	4-7	0.7	2.9	3.7	2.4	2.3	1.6	1.7	3.4	4.9	1.8	1.2	1.1	27.7
7-10	8-12	0.9	4.3	4.2	1.5	2.4	1.6	2.3	4.1	4.2	2.2	1.4	1.4	30.5
11-16	13-18	0.8	2.5	2.1	0.4	0.3	0.4	0.8	2.6	2.5	1.5	1.4	0.6	15.9
17-21	19-24	0.1	0.2	0.3			0+	0.1	0+	0.5	0.2	0.2	0+	1.6
22-27	25-31	0+	0+	0.1							0.1	0+	0+	0.2
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.5	9.9	10.4	4.3	5.0	3.6	4.9	10.1	12.1	5.8	4.2	3.1	97.6
		Percentage number of hours missed												2.3

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

DUNSTABLE *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
		JUNE												
Calm														3.2
1-3	1-3													29.0
4-6	4-7	1.0	1.2	1.3	1.1	1.4	0.9	2.1	4.0	6.4	4.1	1.7	1.2	26.4
7-10	8-12	0.7	2.5	2.4	1.7	1.4	0.9	1.2	3.3	4.7	3.4	2.4	1.1	25.7
11-16	13-18	0.4	2.0	1.5	0.4	0.7	0.5	0.8	1.1	1.8	1.7	1.3	0.6	12.8
17-21	19-24	0.1		0.1				0+	0.1	0+	0+	0.1	0.1	0.5
22-27	25-31													
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.2	5.7	5.3	3.2	3.5	2.3	4.1	8.5	12.9	9.2	5.5	3.0	97.6
													Percentage number of hours missed	2.5
		JULY												
Calm														3.5
1-3	1-3													21.3
4-6	4-7	1.2	2.5	2.9	1.3	1.2	1.0	2.0	4.8	5.4	2.5	2.5	1.7	29.0
7-10	8-12	0.9	2.4	4.0	1.3	1.2	1.1	2.0	4.2	5.6	3.1	2.1	1.5	29.4
11-16	13-18	0.3	1.4	1.6	0.2	0.3	0.5	1.1	1.9	3.6	1.6	1.2	0.2	13.9
17-21	19-24	0.3	0.1	0.1		0.1	0+	0+	0.2	0.4	0.3	0.1	0+	1.6
22-27	25-31						0+			0+	0.1			0.1
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.7	6.4	8.6	2.8	2.8	2.6	5.1	11.1	15.0	7.6	5.9	3.4	98.8
													Percentage number of hours missed	1.3
		AUGUST												
Calm														2.4
1-3	1-3													20.4
4-6	4-7	0.7	2.2	2.1	1.8	1.3	1.5	2.5	6.6	6.6	3.3	1.8	1.1	31.5
7-10	8-12	1.1	2.3	1.9	1.5	1.0	1.5	2.6	5.0	5.1	2.7	1.9	1.1	27.7
11-16	13-18	0.2	0.5	0.4	1.1	0.2	0.9	1.9	2.4	2.8	1.5	0.7	0.2	12.8
17-21	19-24						0+	0.1	0.3	0.3	0.5			1.2
22-27	25-31									0.1	0.1			0.2
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.0	5.0	4.4	4.4	2.5	3.9	7.1	14.3	14.9	8.1	4.4	2.4	96.2
													Percentage number of hours missed	3.7

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

DUNSTABLE *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							SEPTEMBER							
Calm														2.2
1-3	1-3													16.0
4-6	4-7	1.1	1.7	4.2	2.5	2.7	1.0	1.5	5.3	4.1	3.8	1.4	1.1	30.4
7-10	8-12	1.0	1.6	4.8	1.5	2.4	2.5	2.8	4.4	4.1	3.0	1.9	1.2	31.2
11-16	13-18	0.3	0.9	1.7	0.6	0.7	0.9	1.4	3.0	2.7	2.2	0.8	0.8	16.0
17-21	19-24		0.1	0+	0+		0.1	0.1	0.2	0.4	0.2	0.2		1.3
22-27	25-31													
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.4	4.3	10.7	4.6	5.8	4.5	5.8	12.9	11.3	9.2	4.3	3.1	97.1
													Percentage number of hours missed	2.9
							OCTOBER							
Calm														5.1
1-3	1-3													18.0
4-6	4-7	1.1	1.7	1.4	1.8	2.9	2.0	2.0	4.8	4.7	3.8	1.8	1.9	29.9
7-10	8-12	1.4	1.0	0.6	1.4	2.0	1.4	1.6	3.5	3.7	3.9	2.3	1.9	24.7
11-16	13-18	0.5	0.6	0.2	0.3	0.3	0.4	1.2	2.0	3.6	2.4	1.4	1.1	14.0
17-21	19-24	0.1	0.2		0+			0.3	0.3	0.5	0.2	0.3	0.3	2.2
22-27	25-31		0.2					0.1		0.1	0+	0.2	0.1	0.7
28-33	32-38											0+	0+	0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.1	3.7	2.2	3.5	5.2	3.8	5.2	10.6	12.6	10.3	6.0	5.3	94.6
													Percentage number of hours missed	5.5
							NOVEMBER							
Calm														1.9
1-3	1-3													19.6
4-6	4-7	1.5	2.9	1.7	1.2	1.0	1.2	1.8	4.4	5.6	3.2	2.0	1.7	28.2
7-10	8-12	1.7	2.9	2.9	1.4	0.7	1.2	3.2	3.8	3.6	1.8	1.7	1.3	26.2
11-16	13-18	0.5	1.7	1.4	1.0	0.3	0.7	2.4	4.2	3.1	2.0	0.9	1.0	19.2
17-21	19-24		0.2	0.1	0+	0+	0.1	0.4	0.5	0.5	0.9	0.2		2.9
22-27	25-31							0+	0+	0.1	0.1	0+		0.2
28-33	32-38								0+		0+	0+		0+
34-40	39-46									0+	0+	0+		0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.7	7.7	6.1	3.6	2.0	3.2	7.8	12.9	12.9	8.0	4.8	4.0	98.2
													Percentage number of hours missed	1.8

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

DUNSTABLE *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
		DECEMBER												
Calm														2.8
1-3	1-3													14.3
4-6	4-7	0.4	1.1	0.9	0.9	1.4	1.6	2.8	4.7	5.6	1.8	0.7	0.3	22.2
7-10	8-12	0.4	1.1	0.5	0.7	1.4	2.2	3.7	4.7	6.4	2.8	1.0	0.5	25.4
11-16	13-18	0.2	0.8	0.5	0.2	1.2	3.5	4.1	4.2	5.5	3.8	0.7	0.5	25.2
17-21	19-24	0+	0.4	0+	0.1	0.2	0.8	0.7	1.8	2.2	0.9	0.2	0.1	7.4
22-27	25-31						0.1	0+	0.4	0.4	0.3	0.1		1.3
28-33	32-38										0+			0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.0	3.4	1.9	1.9	4.2	8.2	11.3	15.8	20.1	9.6	2.7	1.4	98.6
		Percentage number of hours missed												1.5
		YEAR												
Calm														2.3
1-3	1-3													17.5
4-6	4-7	1.0	2.1	2.3	1.5	1.8	1.3	1.8	4.1	5.0	2.8	1.5	1.2	26.4
7-10	8-12	1.1	2.4	3.0	1.5	1.6	1.6	2.5	3.8	4.6	2.8	1.7	1.4	28.0
11-16	13-18	0.5	1.8	1.4	0.7	0.6	1.1	2.1	2.9	3.3	2.2	1.2	0.7	18.5
17-21	19-24	0.2	0.2	0.1	0.1	0+	0.1	0.2	0.5	0.7	0.5	0.2	0.1	2.9
22-27	25-31	0+	0+	0+	0+	0+	0+	0+	0.1	0.1	0.1	0+	0+	0.3
28-33	32-38								0+	0+	0+	0+	0+	0+
34-40	39-46									0+	0+	0+		0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.8	6.5	6.8	3.8	4.0	4.1	6.6	11.4	13.7	8.4	4.6	3.4	95.9
		Percentage number of hours missed												4.1

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

CARDINGTON (52° 07′N, 00° 25′W) 1950-59

Height of vane:	
above MSL	285′
above ground	150′
above building	100′
effective height	135′

The exposure was good in all directions except north, where two airship sheds, 180 ft high and about 300 yd away, cause turbulence and some reduction in mean wind speeds from that direction.

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
		JANUARY												
Calm														3.8
1-3	1-3													12.2
4-6	4-7	0.5	0.8	1.0	0.8	0.9	0.6	1.0	1.1	2.1	1.8	0.9	0.6	12.1
7-10	8-12	1.5	1.6	1.7	1.4	1.2	1.3	1.1	1.4	3.8	3.5	2.3	1.0	21.8
11-16	13-18	1.5	1.8	0.9	0.9	0.8	1.5	2.0	2.3	5.5	6.5	2.7	1.4	27.8
17-21	19-24	0.7	0.5	0.4	0.1	0.2	0.5	1.1	1.7	3.9	2.8	1.2	0.5	13.6
22-27	25-31	0.1	0.1	0.2	0+	0+	0.1	0.3	0.9	1.8	1.1	0.6	0.2	5.4
28-33	32-38	0.1		0+			0+	0+	0.4	0.4	0.1	0.2	0+	1.2
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.4	4.8	4.2	3.2	3.1	4.0	5.5	7.8	17.5	15.8	7.9	3.7	97.9
		Percentage number of hours missed												1.9
		FEBRUARY												
Calm														4.4
1-3	1-3													12.3
4-6	4-7	1.0	0.9	1.4	0.8	0.5	0.6	0.9	1.2	1.4	1.9	0.9	0.9	12.4
7-10	8-12	2.0	2.2	1.5	0.7	0.6	0.3	1.4	2.6	4.1	3.1	1.9	2.3	22.7
11-16	13-18	2.9	2.5	1.6	0.6	0.4	0.8	1.5	3.5	5.8	5.4	2.4	2.2	29.6
17-21	19-24	1.2	0.5	0.3	0+	0+	0.2	0.7	1.7	2.5	2.1	0.4	0.3	9.9
22-27	25-31	0.4	0.1	0+			0+	0.5	1.2	1.3	1.2	0.1	0.1	4.9
28-33	32-38	0.1						0.5	0.3	0.2	0.2	0+	0.1	1.4
34-40	39-46							0+	0.1		0+			0.1
41-47	47-54												0+	0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		7.6	6.2	4.8	2.1	1.5	1.9	5.5	10.6	15.3	13.9	5.7	5.9	97.7
		Percentage number of hours missed												2.2

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

CARDINGTON *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							MARCH							
Calm														6.2
1-3	1-3													14.5
4-6	4-7	0.7	1.2	2.4	1.6	1.5	1.2	0.8	1.0	1.0	1.4	1.1	0.8	14.7
7-10	8-12	1.8	2.4	3.3	2.2	2.1	1.8	1.8	1.7	1.6	1.5	1.8	1.2	23.2
11-16	13-18	2.1	3.5	2.6	0.9	1.8	1.8	1.8	2.9	3.2	2.0	1.3	1.1	25.0
17-21	19-24	0.6	0.9	0.9	0.3	0.1	0.4	0.7	1.4	2.6	1.6	0.4	0.6	10.5
22-27	25-31	0.1	0.1	0.1	0.1		0.2	0.4	0.4	0.9	0.9	0+	0.1	3.3
28-33	32-38			0.1				0+	0.3	0.6	0.5	0+		1.5
34-40	39-46							0+	0+	0.1	0+			0.1
41-47	47-54									0+				0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.3	8.1	9.4	5.1	5.5	5.4	5.5	7.7	10.0	7.9	4.6	3.8	99.0
Percentage number of hours missed														0.9
							APRIL							
Calm														5.6
1-3	1-3													16.1
4-6	4-7	1.3	1.8	1.4	0.7	0.6	0.7	0.6	1.1	1.3	1.5	1.1	0.9	13.0
7-10	8-12	2.9	3.0	3.6	1.2	0.7	0.7	1.3	2.6	2.5	2.1	2.1	2.1	24.8
11-16	13-18	3.4	3.4	2.0	0.8	0.3	0.4	1.5	2.8	4.6	2.9	2.2	2.6	26.9
17-21	19-24	1.1	0.9	0.3	0+	0+	0.1	1.0	1.5	2.0	1.4	0.5	0.5	9.3
22-27	25-31	0.2	0.3	0.1			0.1	0.1	0.6	0.8	0.5	0.2	0.1	3.0
28-33	32-38								0.1	0.3	0.1	0.1		0.6
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		8.9	9.4	7.4	2.7	1.6	2.0	4.5	8.7	11.5	8.5	6.2	6.2	99.3
Percentage number of hours missed														0.6
							MAY							
Calm														5.1
1-3	1-3													16.3
4-6	4-7	1.4	1.8	2.7	1.7	1.0	1.0	0.9	1.1	1.1	1.6	0.9	0.8	16.0
7-10	8-12	2.4	2.6	4.3	1.5	0.8	0.9	1.2	2.1	2.2	2.5	1.6	1.5	23.6
11-16	13-18	1.3	2.5	3.0	1.2	0.7	0.4	1.6	4.0	3.5	2.6	1.2	1.3	23.3
17-21	19-24	0.1	0.4	0.5	0.3	0.1	0.1	0.8	2.1	1.3	0.3	0.3	0.5	6.8
22-27	25-31		0+	0.1	0.1	0+	0.1	0.5	0.6	0.4	0+	0.1	0.1	2.0
28-33	32-38							0+	0.1	0.1	0+	0+		0.2
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.2	7.3	10.6	4.8	2.6	2.5	5.0	10.0	8.6	7.0	4.1	4.2	93.3
Percentage number of hours missed														6.7

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

CARDINGTON *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							JUNE							
Calm														6.0
1-3	1-3													21.6
4-6	4-7	1.3	1.6	1.9	1.4	0.6	0.6	0.7	1.3	2.3	2.2	2.2	1.2	17.3
7-10	8-12	1.5	2.7	2.5	1.2	0.6	0.6	0.6	1.8	4.2	4.3	3.3	1.9	25.2
11-16	13-18	0.8	1.8	1.7	1.4	0.4	0.3	0.8	2.4	5.2	4.7	2.1	1.8	23.4
17-21	19-24	0.2	0.2		0.1	0+	0.1	0.3	0.7	1.5	0.7	0.1	0.2	4.1
22-27	25-31							0.1	0.2	0.3	0.1		0+	0.7
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.8	6.3	6.1	4.1	1.6	1.6	2.5	6.4	13.5	12.0	7.7	5.1	98.3
													Percentage number of hours missed	1.6
							JULY							
Calm														5.7
1-3	1-3													18.0
4-6	4-7	2.0	1.2	1.2	0.8	0.4	0.5	1.0	1.2	2.1	2.6	2.0	2.0	17.0
7-10	8-12	2.5	2.3	1.5	0.4	0.6	0.5	1.3	2.4	4.5	4.2	3.1	2.0	25.3
11-16	13-18	1.5	2.4	0.8	0.3	0.1	0.3	1.2	3.5	5.9	5.8	2.5	1.4	25.7
17-21	19-24	0.1	0.3	0+	0.1		0.1	0.3	1.2	1.5	1.1	0.4	0+	5.1
22-27	25-31		0.2				0+	0.1	0.5	0.5	0.4	0.1		1.8
28-33	32-38						0+		0.1	0+	0.1	0.1		0.3
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.1	6.4	3.5	1.6	1.1	1.4	3.9	8.9	14.5	14.2	8.2	5.4	98.9
													Percentage number of hours missed	1.0
							AUGUST							
Calm														5.7
1-3	1-3													20.0
4-6	4-7	1.2	1.3	1.0	0.9	0.6	0.9	1.4	1.9	2.2	2.7	2.1	1.1	17.3
7-10	8-12	1.5	1.6	0.6	0.7	0.5	1.1	1.6	3.6	5.0	3.7	2.6	1.8	24.3
11-16	13-18	1.3	1.0	0.4	0.4	0.2	0.6	1.7	4.5	6.1	4.9	2.0	1.0	24.1
17-21	19-24	0.1	0.3	0.1			0.1	0.2	1.4	1.6	1.4	0.6	0.1	5.9
22-27	25-31		0+						0.2	0.3	0.3	0.1	0+	0.9
28-33	32-38								0+	0.1	0.1			0.2
34-40	39-46								0+					0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.1	4.2	2.1	2.0	1.3	2.7	4.9	11.6	15.3	13.1	7.4	4.0	98.4
													Percentage number of hours missed	1.5

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

CARDINGTON *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
								SEPTEMBER						
Calm														4.3
1-3	1-3													17.7
4-6	4-7	1.0	1.5	1.1	1.1	1.1	0.8	0.8	1.3	1.8	2.1	1.5	0.7	14.8
7-10	8-12	0.7	2.3	1.7	1.0	0.8	0.9	1.4	3.1	3.6	3.8	2.3	1.2	22.8
11-16	13-18	0.4	1.1	0.9	0.5	0.3	1.0	1.9	4.0	5.8	4.2	2.3	1.3	23.7
17-21	19-24	0+	0.1	0.3	0.1	0.1	0.2	0.5	2.0	2.2	1.9	0.5	0.2	8.1
22-27	25-31			0.1			0.1	0.1	0.8	0.9	0.6	0+	0+	2.6
28-33	32-38							0+	0.1	0.3	0.1	0.1		0.6
34-40	39-46									0+	0+	0+		0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.1	5.0	4.1	2.7	2.3	3.0	4.7	11.3	14.6	12.7	6.7	3.4	94.6
											Percentage number of hours missed			5.4
								OCTOBER						
Calm														7.1
1-3	1-3													18.8
4-6	4-7	1.0	0.5	1.2	1.0	1.3	1.3	1.0	1.6	1.8	1.7	1.0	0.8	14.2
7-10	8-12	1.5	0.7	1.2	1.3	1.3	1.3	1.8	2.9	3.7	3.5	1.7	1.4	22.3
11-16	13-18	1.6	0.6	0.4	0.5	0.8	0.9	1.8	5.4	5.0	3.9	1.9	1.3	24.1
17-21	19-24	0.7	0.4	0.1	0.1	0.2	0.3	1.0	2.8	1.8	1.1	0.2	0.1	8.8
22-27	25-31	0.2	0.1	0+		0.1	0.1	0.3	1.1	0.8	0.5	0.1	0+	3.3
28-33	32-38							0+	0.1	0.2	0+			0.3
34-40	39-46								0.1	0+				0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.0	2.3	2.9	2.9	3.7	3.9	5.9	14.0	13.3	10.7	4.9	3.6	99.0
											Percentage number of hours missed			1.0
								NOVEMBER						
Calm														4.7
1-3	1-3													16.9
4-6	4-7	1.6	1.0	0.7	0.7	0.8	0.7	1.0	1.6	1.2	1.9	1.5	1.0	13.7
7-10	8-12	2.4	1.4	1.3	0.9	1.3	1.4	2.3	3.2	2.9	3.6	2.4	1.7	24.8
11-16	13-18	2.5	1.6	1.1	0.2	0.9	2.3	2.4	3.3	3.2	3.2	1.9	2.2	24.8
17-21	19-24	0.6	0.1	0.3	0.1	0.1	1.5	1.0	1.3	1.7	1.3	0.7	0.7	9.4
22-27	25-31	0.1	0+			0.1	0.3	0.8	0.8	1.0	0.6	0.3	0.2	4.2
28-33	32-38	0+				0+	0+	0.1	0.2	0.1	0.1	0+	0+	0.5
34-40	39-46							0.1	0.2	0+		0+	0+	0.3
41-47	47-54						0+			0+				0+
48-55	55-63							0+						0+
56-63	64-72													
>63	>72													
TOTAL		7.2	4.1	3.4	1.9	3.2	6.2	7.7	10.6	10.1	10.7	6.8	5.8	99.3
											Percentage number of hours missed			0.5

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

CARDINGTON *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							DECEMBER							
Calm														5.1
1-3	1-3													14.2
4-6	4-7	0.5	0.4	0.6	0.7	0.7	1.1	1.3	1.3	1.6	1.4	0.9	0.3	10.8
7-10	8-12	1.1	0.8	1.1	1.3	1.2	1.8	2.0	2.8	3.3	3.0	1.9	0.9	21.2
11-16	13-18	1.1	0.6	0.9	0.5	0.7	1.4	2.3	4.7	5.7	4.5	2.0	1.5	25.9
17-21	19-24	0.3	0.1	0.1	0.1	0.5	0.7	1.3	2.5	3.1	2.2	0.6	0.4	11.9
22-27	25-31	0.2	0.1		0.1	0.2	0.2	0.5	1.6	2.4	1.0	0.2	0.2	6.7
28-33	32-38					0+	0+	0.2	0.6	0.8	0.5	0.2		2.3
34-40	39-46							0+	0+	0.1	0+			0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.2	2.0	2.7	2.7	3.3	5.2	7.6	13.5	17.0	12.6	5.8	3.3	98.2
											Percentage number of hours missed			1.7
							YEAR							
Calm														5.3
1-3	1-3													16.5
4-6	4-7	1.1	1.2	1.4	1.0	0.8	0.8	0.9	1.3	1.7	1.9	1.4	0.9	14.4
7-10	8-12	1.8	2.0	2.0	1.2	1.0	1.0	1.5	2.5	3.4	3.2	2.3	1.6	23.5
11-16	13-18	1.7	1.9	1.4	0.7	0.6	1.0	1.7	3.6	4.9	4.2	2.0	1.6	25.3
17-21	19-24	0.5	0.4	0.3	0.1	0.1	0.4	0.7	1.7	2.2	1.5	0.5	0.3	8.7
22-27	25-31	0.1	0.1	0.1	0+	0+	0.1	0.3	0.7	1.0	0.6	0.2	0.1	3.3
28-33	32-38	0+		0+		0+	0+	0.1	0.2	0.3	0.1	0.1	0+	0.8
34-40	39-46							0+	0.1	0+	0+	0+	0+	0.1
41-47	47-54						0+			0+			0+	0+
48-55	55-63							0+						0+
56-63	64-72													
>63	>72													
TOTAL		5.2	5.6	5.2	3.0	2.5	3.3	5.2	10.1	13.5	11.5	6.5	4.5	97.9
											Percentage number of hours missed			2.1

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SHOEBURYNESS (51° 32′N, 00° 49′E) 1950, 1952, 1954-59

Height of vane:

above MSL	118′
above ground	106′
above building	16′
effective height	91′

The anemometer was mounted on a 14 ft mast on the roof of a cabin at the top of a steel conning tower. Some shelter was provided by trees for winds between northwest and west but the exposure for other directions was excellent.

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		JANUARY												
Calm														2.5
1-3	1-3													4.7
4-6	4-7	0.7	0.4	0.3	0.1	0.4	0.6	0.6	1.0	1.7	1.3	1.0	0.6	8.7
7-10	8-12	1.9	1.2	0.6	0.4	1.0	1.0	1.3	2.2	3.7	3.5	2.5	1.7	21.0
11-16	13-18	1.8	1.9	2.0	0.8	1.6	2.5	2.6	4.2	5.3	5.1	4.4	2.7	34.9
17-21	19-24	0.6	0.8	1.3	0.9	0.9	1.3	1.5	3.1	2.4	2.2	1.3	0.9	17.2
22-27	25-31	0.2	0.4	0.9	0.9	0.5	0.4	1.2	1.6	0.9	0.6	0.6	0.1	8.3
28-33	32-38			0.7	0.1	0+	0.1	0.4	0.6	0.2	0.2	0+	0.1	2.4
34-40	39-46			0.1	0+		0+	0.1	0.1	0+	0+			0.3
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.2	4.7	5.9	3.2	4.4	5.9	7.7	12.8	14.2	12.9	9.8	6.1	100.0
		Percentage number of hours missed												0
		FEBRUARY												
Calm														2.4
1-3	1-3													5.2
4-6	4-7	0.8	0.6	0.8	0.5	0.9	0.5	1.0	1.3	1.8	1.4	1.0	1.2	11.8
7-10	8-12	1.5	1.7	1.9	0.8	0.7	0.8	1.6	2.8	3.4	3.4	2.4	1.8	22.8
11-16	13-18	2.1	1.7	2.0	0.9	1.1	0.9	2.8	4.0	5.2	5.1	3.6	2.5	31.9
17-21	19-24	0.6	1.4	2.4	0.3	0.7	0.5	1.3	1.5	2.0	0.9	0.6	0.8	13.0
22-27	25-31	0.3	0.6	1.3	0.3	0.1	0.1	1.4	1.8	1.3	0.2	0.2	0.1	7.7
28-33	32-38	0.1	0+	0.1	0.1		0.1	0.6	0.2	0.1	0+			1.3
34-40	39-46						0+	0.2	0.2					0.4
41-47	47-54							0.1						0.1
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.4	6.0	8.5	2.9	3.5	2.9	9.0	11.8	13.8	11.0	7.8	6.4	96.6
		Percentage number of hours missed												3.4

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SHOEBURYNESS *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							MARCH							
Calm														3.1
1-3	1-3													6.4
4-6	4-7	0.4	0.5	0.6	0.8	0.8	0.7	1.1	1.0	1.1	1.2	1.2	0.8	10.2
7-10	8-12	2.1	1.7	1.8	1.9	1.5	1.4	1.6	1.8	2.6	1.1	1.9	1.8	21.2
11-16	13-18	2.2	3.9	4.9	3.0	3.2	2.3	3.1	3.5	3.0	1.3	1.9	1.6	33.9
17-21	19-24	0.4	1.4	1.9	1.4	0.8	0.7	0.9	1.6	1.7	0.5	0.6	0.3	12.2
22-27	25-31		0.2	0.7	0.6	0.1	0.3	0.9	0.9	0.8	0.1	0.1	0.1	4.8
28-33	32-38			0.3	0.6		0+	0.3	0.3	0+				1.5
34-40	39-46			0.3	0+			0.1	0.3					0.7
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.1	7.7	10.5	8.3	6.4	5.4	8.0	9.4	9.2	4.2	5.7	4.6	94.0
										Percentage number of hours missed				6.0
							APRIL							
Calm														2.0
1-3	1-3													6.8
4-6	4-7	1.8	1.2	0.7	1.1	1.6	1.3	1.4	0.9	1.6	1.5	1.6	1.5	16.2
7-10	8-12	3.1	2.1	1.9	1.8	1.7	1.2	0.8	2.6	5.0	3.1	2.6	2.8	28.7
11-16	13-18	4.4	3.1	3.5	2.4	1.1	0.5	1.7	3.4	4.4	2.9	1.9	3.0	32.3
17-21	19-24	0.9	2.1	1.2	0.3	0.3	0.1	0.5	1.1	1.1	0.8	0.5	0.7	9.6
22-27	25-31	0+	1.0	0.7	0+	0+		0.1	0.9	0.6	0.2	0.1	0.1	3.7
28-33	32-38		0.3					0.1	0.1	0+				0.5
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		10.2	9.8	8.0	5.6	4.7	3.1	4.6	9.0	12.7	8.5	6.7	8.1	99.8
										Percentage number of hours missed				0.1
							MAY							
Calm														2.8
1-3	1-3													7.3
4-6	4-7	1.6	1.2	1.1	2.0	0.9	1.0	0.9	1.2	1.4	1.0	1.5	1.8	15.6
7-10	8-12	2.4	2.0	3.2	2.9	1.8	1.2	1.7	2.0	4.3	2.9	2.4	2.3	29.1
11-16	13-18	2.4	3.1	4.0	2.1	1.5	0.9	2.6	5.1	4.9	1.9	2.0	1.7	32.2
17-21	19-24	0.1	0.8	1.6	0.5	0.3	0.1	0.9	2.5	1.2	0.5	0.2	0.3	9.0
22-27	25-31	0+	0.5	0.5	0.1	0.1	0.1	0.3	1.2	0.2	0.1		0.1	3.2
28-33	32-38		0.3	0.1				0.1	0.2		0.1	0+	0+	0.8
34-40	39-46		0+					0+	0+					0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.5	7.9	10.5	7.6	4.6	3.3	6.5	12.2	12.0	6.5	6.1	6.2	100.0
										Percentage number of hours missed				0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SHOEBURYNESS *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
								JUNE						
Calm														3.0
1-3	1-3													9.6
4-6	4-7	1.2	1.0	1.3	1.5	1.2	0.7	1.2	1.3	2.5	2.1	1.7	1.8	17.5
7-10	8-12	1.4	0.8	1.9	2.8	1.2	0.9	1.4	2.9	6.0	3.5	3.3	2.7	28.8
11-16	13-18	1.3	1.6	2.9	2.2	1.0	0.5	2.0	5.7	6.2	2.5	2.3	1.6	29.8
17-21	19-24	0.1	0.6	1.7	0.6	0+	0.4	0.8	2.4	1.2	0.4	0.1	0.3	8.6
22-27	25-31		0.2	0.2	0.1	0.1	0.1	0.4	0.6	0.1		0+	0.1	1.9
28-33	32-38						0+	0.1	0.3					0.4
34-40	39-46							0+	0+					0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.0	4.2	8.0	7.2	3.5	2.6	5.9	13.2	16.0	8.5	7.4	6.5	99.6
Percentage number of hours missed														0.3
								JULY						
Calm														3.7
1-3	1-3													10.2
4-6	4-7	1.5	0.7	1.0	1.6	1.4	1.1	0.6	1.1	2.0	2.4	3.0	2.2	18.6
7-10	8-12	1.9	0.8	2.1	1.9	1.4	1.0	0.9	3.1	5.5	4.9	3.3	2.2	29.0
11-16	13-18	0.9	1.2	3.1	1.9	1.0	0.4	1.5	5.2	6.9	3.0	1.5	1.1	27.7
17-21	19-24	0.1	0.3	0.7	0.1	0.2	0.1	0.8	2.7	1.8	0.5	0.3	0.1	7.7
22-27	25-31		0.2	0.3	0.1		0+	0.3	1.1	0.5	0.2			2.7
28-33	32-38							0.1	0.1	0+				0.2
34-40	39-46								0.1	0+				0.1
41-47	47-54								0+					0+
48-55	55-63								0+					0+
56-63	64-72													
>63	>72													
TOTAL		4.4	3.2	7.2	5.6	4.0	2.6	4.2	13.4	16.7	11.0	8.1	5.6	99.9
Percentage number of hours missed														0
								AUGUST						
Calm														4.0
1-3	1-3													10.7
4-6	4-7	1.2	0.8	0.7	1.2	1.3	0.6	1.2	1.5	3.0	1.9	2.0	1.5	16.9
7-10	8-12	1.4	0.7	1.2	1.9	1.8	1.3	1.5	3.5	6.6	3.5	3.0	2.1	28.5
11-16	13-18	1.0	1.1	2.1	1.9	0.6	1.0	2.3	6.3	7.6	2.7	1.3	1.3	29.2
17-21	19-24	0.1	0.5	0.8	0.5	0.1	0.1	1.0	2.1	1.3	0.7	0.2	0.1	7.5
22-27	25-31	0.1					0+	0.6	1.2	0.4	0.2	0+		2.5
28-33	32-38							0.2	0.2	0.2				0.6
34-40	39-46							0+	0.1					0.1
41-47	47-54								0+					0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.8	3.1	4.8	5.5	3.8	3.0	6.8	14.9	19.1	9.0	6.5	5.0	100.0
Percentage number of hours missed														0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SHOEBURYNESS *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
SEPTEMBER														
Calm														2.0
1-3	1-3													5.8
4-6	4-7	1.5	0.6	1.1	1.0	0.5	0.7	0.5	1.0	1.9	1.7	1.6	1.4	13.5
7-10	8-12	2.4	1.0	1.4	1.9	1.0	0.6	1.0	3.1	4.9	4.7	3.1	1.7	26.8
11-16	13-18	2.2	2.1	3.0	2.0	1.1	0.8	2.4	5.2	7.5	6.0	2.6	1.4	36.3
17-21	19-24	0.1	1.0	1.4	0.7	0.5	0.3	1.3	2.0	1.9	1.2	0.4	0.2	11.0
22-27	25-31	0+	0.3	0.2	0.1	0.2	0.1	0.6	1.3	0.5	0.4			3.7
28-33	32-38						0.1	0.1	0.3	0.1				0.6
34-40	39-46							0+	0.1					0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.2	5.0	7.1	5.7	3.3	2.6	5.9	13.0	16.8	14.0	7.7	4.7	99.8
Percentage number of hours missed														0.2
OCTOBER														
Calm														1.6
1-3	1-3													5.2
4-6	4-7	0.9	0.6	0.5	0.9	1.1	1.0	1.1	1.3	2.6	2.0	1.6	0.9	14.5
7-10	8-12	1.4	0.7	0.9	1.1	1.5	1.0	1.4	2.8	5.8	4.6	3.9	2.6	27.7
11-16	13-18	0.4	0.2	0.8	1.7	1.0	1.1	3.2	6.8	7.2	4.5	4.0	2.2	33.1
17-21	19-24	0.4	0+	0.6	1.2	0.5	0.7	1.5	3.6	1.6	1.0	0.9	0.4	12.4
22-27	25-31	0.3	0+	0.3	0.3	0.1	0.5	0.5	1.1	0.3	0.2	0.1	0.4	4.1
28-33	32-38					0.1	0.1	0.2	0.2	0.1	0+	0+	0.1	0.8
34-40	39-46					0.1	0.1	0.2	0.1				0+	0.5
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.4	1.5	3.1	5.2	4.4	4.5	8.1	15.9	17.6	12.3	10.5	6.6	99.9
Percentage number of hours missed														0.1
NOVEMBER														
Calm														2.8
1-3	1-3													3.3
4-6	4-7	0.7	0.3	0.3	0.2	0.4	0.5	0.5	0.8	1.4	1.7	1.2	1.3	9.3
7-10	8-12	2.6	1.2	0.4	0.3	1.2	1.6	1.4	1.8	3.8	3.9	4.1	4.0	26.3
11-16	13-18	3.3	1.0	1.2	1.7	2.0	2.4	3.4	2.8	3.6	3.1	4.2	5.5	34.2
17-21	19-24	0.9	0.2	1.3	0.9	0.7	1.4	2.5	1.5	1.0	1.1	1.0	1.4	13.9
22-27	25-31	0.1	0.1	1.0	0.5	0.4	1.1	2.0	1.0	0.3	0.1	0.4	0.3	7.3
28-33	32-38		0+	0.2	0.2	0.1	0.4	0.5	0.3	0.1	0+		0+	1.8
34-40	39-46					0+	0.2	0.3	0.1			0.1	0+	0.7
41-47	47-54							0.1	0+					0.1
48-55	55-63							0+						0+
56-63	64-72													
>63	>72													
TOTAL		7.6	2.8	4.4	3.8	4.8	7.6	10.7	8.3	10.2	9.9	11.0	12.5	99.7
Percentage number of hours missed														0.2

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SHOEBURYNESS *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350°–010°	020°–040°	050°–070°	080°–100°	110°–130°	140°–160°	170°–190°	200°–220°	230°–250°	260°–280°	290°–310°	320°–340°	All directions Total
		DECEMBER												
Calm														2.4
1-3	1-3													4.4
4-6	4-7	0.7	0.2	0.2	0.1	0.4	0.6	0.6	1.0	1.7	2.1	1.4	1.0	10.0
7-10	8-12	1.6	0.4	0.1	0.2	0.8	1.1	1.4	2.6	4.4	3.0	2.3	3.0	20.9
11-16	13-18	0.7	0.8	0.5	0.6	2.1	2.0	3.3	5.1	8.6	5.0	2.3	1.3	32.3
17-21	19-24	0.3	0.9	1.3	0.6	1.0	1.5	2.9	2.7	2.7	1.9	0.8	0.2	16.8
22-27	25-31	0.2	0.2	0.4	0.2	0.5	1.2	1.6	3.0	1.3	0.7	0.3		9.6
28-33	32-38		0+	0.3	0.1	0.4	0.4	0.5	0.7	0.1	0.2	0.1		2.8
34-40	39-46					0.1	0.1	0.2	0.1	0.1	0+			0.6
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.5	2.5	2.8	1.8	5.3	6.9	10.5	15.2	18.9	12.9	7.2	5.5	99.8
													Percentage number of hours missed	0.2
		YEAR												
Calm														2.7
1-3	1-3													6.5
4-6	4-7	1.1	0.7	0.7	0.9	0.9	0.8	0.9	1.1	1.9	1.7	1.6	1.3	13.6
7-10	8-12	2.0	1.2	1.4	1.5	1.3	1.1	1.3	2.6	4.7	3.5	2.9	2.4	25.9
11-16	13-18	1.9	1.8	2.5	1.8	1.4	1.3	2.6	4.8	5.9	3.6	2.7	2.2	32.5
17-21	19-24	0.4	0.8	1.4	0.7	0.5	0.6	1.3	2.2	1.7	1.0	0.6	0.5	11.7
22-27	25-31	0.1	0.3	0.5	0.3	0.2	0.3	0.8	1.3	0.6	0.3	0.1	0.1	4.9
28-33	32-38	0+	0.1	0.1	0.1	0+	0.1	0.3	0.3	0.1	0+	0+	0+	1.1
34-40	39-46		0+	0+	0+	0+	0+	0.1	0.1	0+	0+	0+	0+	0.2
41-47	47-54							0+	0+					0+
48-55	55-63							0+	0+					0+
56-63	64-72													
>63	>72													
TOTAL		5.5	4.9	6.6	5.3	4.3	4.2	7.3	12.4	14.9	10.1	7.9	6.5	99.1
													Percentage number of hours missed	0.9

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

BIRMINGHAM (EDGBASTON) (52° 28′N, 01° 56′W) 1950-59

Height of vane:	
above MSL	643′
above ground	118′
above building	18′
effective height	73′

The head of the pressure-tube anemograph was 18 ft above the top of a 100 ft tower providing a much more unobstructed exposure than could usually be obtained in an urban site. The station was in a residential area on the south-western outskirts of the city. The ground fell gradually to the north and east to about 400 ft above msl and rose to the west, reaching 600 ft about 1½ miles distant, with an isolated area above 700 ft some 2½ miles to the west-south-west.

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							JANUARY							
Calm														0.4
1-3	1-3													7.1
4-6	4-7	1.2	1.2	0.8	0.8	1.1	2.1	2.2	2.9	3.7	2.3	2.2	1.6	22.1
7-10	8-12	1.3	1.9	2.1	1.7	1.1	2.5	3.4	5.0	6.1	4.5	2.8	2.3	34.7
11-16	13-18	1.4	1.4	1.2	1.8	0.6	1.2	3.2	4.0	3.0	4.5	2.6	2.8	27.7
17-21	19-24	0.4	0+	0.4	0.2		0.1	0.5	0.6	0.7	1.4	1.0	0.7	6.0
22-27	25-31	0+	0+		0.2			0.1	0.1	0.2	0.3	0.2	0.4	1.5
28-33	32-38										0+	0+	0+	0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.3	4.5	4.5	4.7	2.8	5.9	9.4	12.6	13.7	13.0	8.8	7.8	99.5
										Percentage number of hours missed				0.5
							FEBRUARY							
Calm														1.1
1-3	1-3													8.7
4-6	4-7	1.4	2.1	1.4	1.5	1.3	2.6	2.5	3.9	2.6	1.6	1.6	1.8	24.3
7-10	8-12	2.3	3.0	2.3	1.6	1.0	1.4	3.6	5.8	5.4	3.5	2.5	3.4	35.8
11-16	13-18	2.0	1.1	2.4	1.4	0.3	0.9	1.7	3.3	2.9	2.8	2.0	3.0	23.8
17-21	19-24	0.5	0.2	0.2	0.2	0+	0.3	0.8	0.7	1.1	0.6	0.3	0.6	5.5
22-27	25-31	0+	0+				0.2	0.1	0.1	0.1	0.1	0+	0.1	0.7
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.2	6.4	6.3	4.7	2.6	5.4	8.7	13.8	12.1	8.6	6.4	8.9	99.9
										Percentage number of hours missed				0+

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

BIRMINGHAM (EDGBASTON) *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
								MARCH						
Calm														0.7
1-3	1-3													8.6
4-6	4-7	1.3	1.3	2.2	3.0	3.1	3.7	3.2	2.5	1.9	1.6	1.8	2.2	27.8
7-10	8-12	1.6	2.0	2.8	4.5	3.5	3.9	3.2	3.2	3.2	2.1	1.6	2.5	34.1
11-16	13-18	0.9	1.1	2.6	3.2	1.3	1.5	2.8	2.4	2.1	1.8	1.2	1.6	22.5
17-21	19-24	0.3	0.3	0.5	0.6	0.1	0.1	0.7	0.5	0.6	0.5	0.4	0.3	4.9
22-27	25-31		0.2	0.1	0.1		0+	0.1	0.1	0.2	0.1	0+	0.1	1.0
28-33	32-38		0.1	0+						0+	0.1			0.2
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.1	5.0	8.2	11.4	8.0	9.2	10.0	8.7	8.0	6.2	5.0	6.7	99.8
Percentage number of hours missed														0
								APRIL						
Calm														0.7
1-3	1-3													9.7
4-6	4-7	2.2	2.6	2.1	2.5	1.8	1.5	2.4	3.0	3.3	2.2	2.3	2.6	28.5
7-10	8-12	2.1	3.8	3.8	2.6	0.5	0.5	1.7	3.4	4.9	3.9	3.2	3.7	34.1
11-16	13-18	1.3	2.2	2.1	0.8	0.1	0.2	2.1	2.1	2.4	3.1	2.6	3.6	22.6
17-21	19-24	0.1	0.1	0.2	0+	0+	0+	0.3	0.8	0.5	0.5	0.4	0.9	3.8
22-27	25-31							0+	0+	0.1	0.1	0.1	0.1	0.4
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.7	8.7	8.2	5.9	2.4	2.2	6.5	9.3	11.2	9.8	8.6	10.9	99.8
Percentage number of hours missed														0+
								MAY						
Calm														0.5
1-3	1-3													7.5
4-6	4-7	1.7	2.2	2.4	2.4	2.5	2.7	2.4	2.3	2.6	1.4	1.3	2.2	26.1
7-10	8-12	2.3	3.8	5.7	2.3	1.9	1.9	3.5	3.6	3.7	2.8	2.3	3.7	37.5
11-16	13-18	1.2	2.2	4.0	0.6	0.8	0.4	2.1	2.6	2.5	2.0	2.0	4.1	24.5
17-21	19-24	0.2	0.2	0.5	0.1		0+	0.2	0.3	0.2	0.5	0.2	0.7	3.1
22-27	25-31	0.1	0+	0+	0.1				0+	0+	0.2		0+	0.4
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.5	8.4	12.6	5.5	5.2	5.0	8.2	8.8	9.0	6.9	5.8	10.7	99.6
Percentage number of hours missed														0.3

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

BIRMINGHAM (EDGBASTON) *(contd)*

Mean wind speed		Percentage number of hours with winds from												All directions
knots	m.p.h.	350°–010°	020°–040°	050°–070°	080°–100°	110°–130°	140°–160°	170°–190°	200°–220°	230°–250°	260°–280°	290°–310°	320°–340°	Total
								JUNE						
Calm														0.6
1-3	1-3													11.1
4-6	4-7	2.0	2.4	2.6	1.2	1.5	1.3	1.9	3.8	3.4	3.4	2.8	2.6	28.9
7-10	8-12	1.9	2.3	4.5	2.3	1.1	0.9	2.1	5.0	6.4	4.7	4.0	4.2	39.4
11-16	13-18	1.0	0.5	1.8	1.6	0.4	0.3	1.3	2.7	2.3	2.4	2.1	2.3	18.7
17-21	19-24	0.1		0+	0+	0.1	0+	0+	0.2	0.1	0.1	0.2	0.3	1.1
22-27	25-31													
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.0	5.2	8.9	5.1	3.1	2.5	5.3	11.7	12.2	10.6	9.1	9.4	99.8
Percentage number of hours missed														0.2
								JULY						
Calm														1.8
1-3	1-3													8.4
4-6	4-7	2.7	2.0	2.2	1.8	0.9	1.2	2.3	3.4	4.0	3.8	3.5	3.7	31.5
7-10	8-12	1.8	1.4	2.6	1.4	0.5	1.0	2.6	5.2	6.7	6.0	5.0	3.9	38.1
11-16	13-18	0.5	0.4	1.0	0.2	0.1	0.4	1.3	2.5	3.9	3.6	2.8	1.5	18.2
17-21	19-24		0+	0.2	0+			0+	0.1	0.4	0.7	0.2	0.1	1.7
22-27	25-31								0+	0+	0.1	0+		0.1
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.0	3.8	6.0	3.4	1.5	2.6	6.2	11.2	15.0	14.2	11.5	9.2	99.8
Percentage number of hours missed														0+
								AUGUST						
Calm														0.5
1-3	1-3													8.7
4-6	4-7	1.7	1.8	2.0	1.9	1.7	1.7	2.5	4.5	4.8	3.5	3.2	3.6	32.9
7-10	8-12	1.5	1.3	1.6	1.1	1.1	1.3	3.5	6.4	6.9	5.8	4.0	3.8	38.3
11-16	13-18	0.7	0.7	0.7	0.2	0.1	0.6	2.1	2.8	3.9	2.5	1.5	1.5	17.3
17-21	19-24	0+		0.1			0+	0.2	0.4	0.5	0.5	0.3	0.1	2.1
22-27	25-31							0+	0+		0.1	0+		0.1
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.9	3.8	4.4	3.2	2.9	3.6	8.3	14.1	16.1	12.4	9.0	9.0	99.9
Percentage number of hours missed														0+

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

BIRMINGHAM (EDGBASTON) *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
								SEPTEMBER						
Calm														0.6
1-3	1-3													7.8
4-6	4-7	1.6	1.5	1.8	2.1	2.5	2.6	2.6	4.2	3.4	2.9	2.0	1.9	29.1
7-10	8-12	0.6	2.1	1.9	2.2	1.2	1.8	2.4	5.7	7.1	3.9	3.8	2.6	35.3
11-16	13-18	0.5	0.7	1.0	0.7	0.2	0.5	2.1	4.0	4.2	3.9	2.7	1.9	22.4
17-21	19-24			0.1			0+	0.6	0.7	0.8	1.1	0.6	0.2	4.1
22-27	25-31							0.2	0+	0.1	0.2			0.5
28-33	32-38								0+		0+			0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.7	4.3	4.8	5.0	3.9	4.9	7.9	14.6	15.6	12.0	9.1	6.6	99.8
													Percentage number of hours missed	0
								OCTOBER						
Calm														1.3
1-3	1-3													13.7
4-6	4-7	1.6	0.9	0.9	2.1	2.2	2.7	3.5	3.4	4.0	2.9	2.2	2.4	28.8
7-10	8-12	1.8	0.7	1.2	1.6	1.7	1.7	3.1	5.8	7.1	3.6	3.1	2.8	34.2
11-16	13-18	1.4	0.4	0.6	0.2	0.8	0.6	1.8	3.9	3.1	2.2	1.7	2.3	19.0
17-21	19-24	0.1	0+		0.1		0.1	0.4	0.4	0.4	0.4	0.3	0.6	2.8
22-27	25-31				0+			0+	0+	0+		0.2	0.1	0.3
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.9	2.0	2.7	4.0	4.7	5.1	8.8	13.5	14.6	9.1	7.5	8.2	100.1
													Percentage number of hours missed	0
								NOVEMBER						
Calm														0.8
1-3	1-3													9.7
4-6	4-7	2.2	1.8	1.1	1.3	1.3	2.1	2.7	3.4	3.7	2.8	1.8	3.0	27.2
7-10	8-12	1.8	1.9	1.6	1.8	1.1	2.1	5.2	4.7	6.0	3.2	2.4	4.3	36.1
11-16	13-18	0.8	0.7	1.2	0.9	0.3	1.5	2.6	2.2	2.3	2.0	1.6	2.3	18.4
17-21	19-24	0.1	0.2	0.1		0.1	0.5	0.7	1.1	0.9	0.6	1.0	0.8	6.1
22-27	25-31						0.1	0.2	0.2	0.3	0.1	0.2	0+	1.1
28-33	32-38								0.1	0+		0+	0+	0.1
34-40	39-46								0+			0+	0+	0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.9	4.6	4.0	4.0	2.8	6.3	11.4	11.7	13.2	8.7	7.0	10.4	99.5
													Percentage number of hours missed	0.2

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

BIRMINGHAM (EDGBASTON) *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							DECEMBER							
Calm														0.2
1-3	1-3													8.7
4-6	4-7	1.1	1.4	0.9	0.7	1.3	2.2	3.3	4.3	3.1	1.3	1.2	1.2	22.0
7-10	8-12	1.0	1.2	1.2	1.4	1.9	2.8	4.1	6.6	6.3	4.1	2.9	1.6	35.1
11-16	13-18	0.8	0.5	0.7	0.5	0.9	1.2	2.9	4.4	4.5	4.6	2.0	1.7	24.7
17-21	19-24		0.2	0.3	0.2	0.4	0.4	0.5	1.2	1.1	1.6	0.9	0.5	7.3
22-27	25-31					0+	0+	0.1	0.4	0.3	0.3	0.3	0.1	1.5
28-33	32-38										0+	0.2	0.2	0.4
34-40	39-46											0+		0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.9	3.3	3.1	2.8	4.5	6.6	10.9	16.9	15.3	11.9	7.5	5.3	99.9
									Percentage number of hours missed					0
							YEAR							
Calm														0.8
1-3	1-3													9.1
4-6	4-7	1.7	1.7	1.7	1.8	1.8	2.2	2.6	3.5	3.4	2.5	2.2	2.4	27.5
7-10	8-12	1.7	2.1	2.6	2.0	1.4	1.8	3.2	5.1	5.8	4.0	3.1	3.2	36.0
11-16	13-18	1.0	1.0	1.6	1.0	0.5	0.8	2.2	3.1	3.1	2.9	2.0	2.4	21.6
17-21	19-24	0.2	0.1	0.2	0.1	0.1	0.1	0.4	0.6	0.6	0.7	0.5	0.5	4.1
22-27	25-31	0+	0+	0+	0+	0+	0+	0.1	0.1	0.1	0.1	0.1	0.1	0.6
28-33	32-38		0+	0+					0+	0+	0+	0+	0+	0+
34-40	39-46								0+			0+	0+	0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.6	4.9	6.1	4.9	3.8	4.9	8.5	12.4	13.0	10.2	7.9	8.6	99.7
									Percentage number of hours missed					0.1

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

KEELE (53° 00′N, 02° 16′W) 1953-59

Height of vane:

above MSL	706′
above ground	50′
above building	40′
effective height	40′

The exposure was generally good, being very open to south and west but with some slight obstructions to the north-west and north-east.

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°–010°	020°–040°	050°–070°	080°–100°	110°–130°	140°–160°	170°–190°	200°–220°	230°–250°	260°–280°	290°–310°	320°–340°	All directions Total
		JANUARY												
Calm														5.5
1-3	1-3													24.0
4-6	4-7	1.0	1.0	0.7	0.6	2.0	2.0	2.1	1.2	1.9	2.3	2.0	1.5	18.3
7-10	8-12	1.6	1.0	1.0	1.4	2.9	2.8	2.6	1.9	2.4	3.0	2.7	1.5	24.8
11-16	13-18	1.1	0.7	0.8	1.6	1.7	2.1	2.5	3.0	1.6	2.3	1.6	1.7	20.7
17-21	19-24	0.2	0+	0.2	0.7	0.1	0.1	0.6	0.8	0.4	0.6	0.6	0.5	4.8
22-27	25-31	0+		0+	0.1			0.1	0.2	0.1	0.2	0.2	0.3	1.2
28-33	32-38								0+	0+	0+	0+	0.1	0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.9	2.7	2.7	4.4	6.7	7.0	7.9	7.1	6.4	8.4	7.1	5.6	99.4
		Percentage number of hours missed												0.5
		FEBRUARY												
Calm														4.4
1-3	1-3													25.4
4-6	4-7	1.4	1.8	1.4	1.4	2.8	2.4	2.3	2.2	1.5	1.2	1.7	2.5	22.6
7-10	8-12	2.1	1.2	1.6	1.9	2.6	1.9	2.6	2.9	2.1	1.6	1.6	2.8	24.9
11-16	13-18	1.4	0.4	1.1	1.9	1.0	1.1	1.7	2.5	2.1	2.1	1.6	1.4	18.3
17-21	19-24	0.3	0.2	0.2	0.8	0+	0.1	0.6	0.7	0.3	0.1	0.3	0.2	3.8
22-27	25-31	0+		0+	0+			0.2	0.1	0+	0.1	0+	0+	0.4
28-33	32-38							0+	0+					0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.2	3.6	4.3	6.0	6.4	5.5	7.4	8.4	6.0	5.1	5.2	6.9	99.8
		Percentage number of hours missed												0.1

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

KEELE *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		MARCH												
Calm														3.4
1-3	1-3													22.1
4-6	4-7	1.2	0.8	1.5	1.4	3.6	3.1	1.3	1.3	1.0	0.9	1.5	1.4	19.0
7-10	8-12	1.0	1.2	2.7	4.0	7.2	3.7	1.5	1.7	1.6	1.6	1.5	1.9	29.6
11-16	13-18	0.7	0.4	1.4	4.4	2.8	1.9	1.5	1.7	1.9	1.1	1.0	1.0	19.8
17-21	19-24	0.1	0.2	0.3	1.3	0.1	0+	0.4	0.4	0.6	0.2	0.2	0.2	4.0
22-27	25-31				0.1			0.1	0.1	0.2	0.1			0.6
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.0	2.6	5.9	11.2	13.7	8.7	4.8	5.2	5.3	3.9	4.2	4.5	98.5
		Percentage number of hours missed												1.5
		APRIL												
Calm														3.9
1-3	1-3													31.9
4-6	4-7	1.9	1.5	1.2	2.4	2.8	1.2	1.9	1.7	2.2	1.6	2.2	2.8	23.4
7-10	8-12	2.1	2.5	1.7	2.6	1.4	0.9	1.7	2.6	2.8	1.1	3.2	3.0	25.6
11-16	13-18	0.7	1.4	0.9	0.6		0.1	1.4	1.9	1.7	0.9	2.0	1.3	12.9
17-21	19-24	0+	0+	0.1				0.2	0.3	0.1	0.1	0.3	0.4	1.5
22-27	25-31												0+	0+
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.7	5.4	3.9	5.6	4.2	2.2	5.2	6.5	6.8	3.7	7.7	7.5	99.2
		Percentage number of hours missed												0.8
		MAY												
Calm														2.9
1-3	1-3													24.9
4-6	4-7	1.4	1.2	1.3	2.3	3.0	1.7	2.4	2.3	1.6	1.8	2.6	2.0	23.6
7-10	8-12	0.6	0.8	1.4	2.5	2.0	1.3	3.2	3.7	2.5	1.5	3.6	3.2	26.3
11-16	13-18	0.8	0.4	1.3	1.3	0.3	0.7	3.1	2.7	2.1	0.8	2.5	1.5	17.5
17-21	19-24	0.1	0.1	0.4	0+			0.2	0.2	0.2	0.1	0.3	0.2	1.8
22-27	25-31								0.1	0.1				0.2
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.9	2.5	4.4	6.1	5.3	3.7	8.9	9.0	6.5	4.2	9.0	6.9	97.2
		Percentage number of hours missed												2.8

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

KEELE *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
								JUNE						
Calm														4.7
1-3	1-3													35.3
4-6	4-7	0.7	0.4	1.1	2.2	1.1	0.7	1.9	2.0	1.9	2.3	4.2	3.0	21.5
7-10	8-12	1.0	0.5	1.7	3.9	1.3	0.5	2.2	3.5	2.9	1.9	4.8	1.9	26.1
11-16	13-18	0.3	0+	1.3	2.3	0.3	0.1	1.0	1.4	0.7	0.3	2.5	0.6	10.8
17-21	19-24				0.1			0.1	0.1	0+		0.1	0.2	0.6
22-27	25-31													
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.0	0.9	4.1	8.5	2.7	1.3	5.2	7.0	5.5	4.5	11.6	5.7	99.0
									Percentage number of hours missed					0.9
								JULY						
Calm														3.8
1-3	1-3													36.5
4-6	4-7	0.7	0.3	1.1	1.8	0.9	1.0	2.9	3.4	3.4	3.6	4.3	3.7	27.1
7-10	8-12	0.2	0.5	1.0	1.4	0.5	0.5	2.1	3.8	4.1	3.7	4.0	1.8	23.6
11-16	13-18	0.1	0.1	0.1	0.4	0+	0.1	0.6	1.4	1.9	1.0	1.0	0.2	6.9
17-21	19-24							0.1	0.2	0.3	0.3			0.9
22-27	25-31									0+				0+
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.0	0.9	2.2	3.6	1.4	1.6	5.7	8.8	9.7	8.6	9.3	5.7	98.8
									Percentage number of hours missed					1.2
								AUGUST						
Calm														4.2
1-3	1-3													37.4
4-6	4-7	1.0	0.5	0.9	2.9	2.2	1.2	2.6	2.5	2.7	2.3	4.4	2.3	25.5
7-10	8-12	0.3	0.4	0.9	2.4	0.9	0.9	2.4	3.2	3.7	1.9	3.6	1.8	22.4
11-16	13-18	0.1	0.1	0.2	0.3		0.1	0.5	1.6	2.0	1.2	1.2	0.7	8.0
17-21	19-24							0.1	0.1	0.2	0.1	0.1	0+	0.6
22-27	25-31													
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.4	1.0	2.0	5.6	3.1	2.2	5.6	7.4	8.6	5.5	9.3	4.8	98.1
									Percentage number of hours missed					1.8

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

KEELE *(contd)*

Mean wind speed knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		Percentage number of hours with winds from												
							SEPTEMBER							
Calm														3.3
1-3	1-3													31.9
4-6	4-7	0.3	0+	1.1	3.3	3.0	1.8	3.1	2.3	2.6	2.2	2.1	1.2	23.0
7-10	8-12	0.2	0.2	2.5	3.0	1.5	1.9	3.1	2.9	4.0	2.7	2.6	1.3	25.9
11-16	13-18	0.1	0.3	0.8	1.0	0.2	0.6	2.0	1.9	2.2	1.6	1.3	0.6	12.6
17-21	19-24		0+	0.2	0.1			0.2	0.4	0.5	0+	0.1	0+	1.5
22-27	25-31			0+				0+	0+	0+				0+
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		0.6	0.5	4.6	7.4	4.7	4.3	8.4	7.5	9.3	6.5	6.1	3.1	98.2
Percentage number of hours missed														1.7
							OCTOBER							
Calm														4.3
1-3	1-3													32.5
4-6	4-7	0.7	0.2	0.2	0.8	2.2	2.6	3.7	2.6	3.2	1.6	2.4	2.1	22.3
7-10	8-12	0.8	0.5	0.1	1.4	1.2	1.0	3.5	5.1	3.8	2.5	3.1	2.2	25.2
11-16	13-18	0.3	0.3	0.1	0.2	0.1	0.5	2.5	3.5	2.0	1.1	1.9	1.1	13.6
17-21	19-24						0+	0.2	0.2	0.1	0.1	0.2	0.2	1.0
22-27	25-31								0+			0.2	0.1	0.3
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.8	1.0	0.4	2.4	3.5	4.1	9.9	11.4	9.1	5.3	7.8	5.7	99.2
Percentage number of hours missed														0.8
							NOVEMBER							
Calm														5.5
1-3	1-3													30.7
4-6	4-7	1.0	0.6	0.7	1.3	2.4	2.7	3.5	2.6	2.6	2.2	1.8	2.5	23.9
7-10	8-12	0.7	0.4	0.8	2.0	2.1	3.0	4.2	2.5	2.7	1.0	2.0	3.3	24.7
11-16	13-18	0.3	0.1	0.4	1.1	1.2	1.4	1.8	1.4	1.6	1.6	0.9	1.0	12.8
17-21	19-24					0+	0.3	0.3	0.6	0.3	0.3	0.1	0+	1.9
22-27	25-31						0+	0.2	0.1	0+				0.3
28-33	32-38							0.1						0.1
34-40	39-46							0+						0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.0	1.1	1.9	4.4	5.7	7.4	10.1	7.2	7.2	5.1	4.8	6.8	99.9
Percentage number of hours missed														0+

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

KEELE *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°–010°	020°–040°	050°–070°	080°–100°	110°–130°	140°–160°	170°–190°	200°–220°	230°–250°	260°–280°	290°–310°	320°–340°	All directions Total
		DECEMBER												
Calm														2.6
1-3	1-3													20.2
4-6	4-7	0.9	0.6	0.4	1.3	3.1	3.5	3.0	2.3	1.8	1.9	0.9	0.6	20.3
7-10	8-12	1.0	0.4	0.5	1.6	2.8	2.6	3.4	3.7	2.8	3.6	2.0	0.8	25.2
11-16	13-18	0.7	0.6	0.6	1.6	3.2	2.0	2.8	4.2	3.6	2.6	1.4	0.6	23.9
17-21	19-24	0.1	0.2	0.1	0.6	0.7	0+	0.4	1.3	1.0	0.8	0.4	0+	5.6
22-27	25-31							0.1	0.3	0.2	0.4	0.3	0+	1.3
28-33	32-38									0+	0.1	0+		0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.7	1.8	1.6	5.1	9.8	8.1	9.7	11.8	9.4	9.4	5.0	2.0	99.2
													Percentage number of hours missed	0.8
		YEAR												
Calm														4.0
1-3	1-3													29.4
4-6	4-7	1.0	0.7	1.0	1.8	2.4	2.0	2.6	2.2	2.2	2.0	2.5	2.1	22.5
7-10	8-12	1.0	0.8	1.3	2.3	2.2	1.8	2.7	3.1	2.9	2.2	2.9	2.1	25.3
11-16	13-18	0.5	0.4	0.7	1.4	0.9	0.9	1.8	2.3	2.0	1.4	1.6	1.0	14.9
17-21	19-24	0.1	0.1	0.1	0.3	0.1	0+	0.3	0.4	0.3	0.2	0.2	0.2	2.3
22-27	25-31	0+		0+	0+		0+	0+	0.1	0.1	0.1	0.1	0+	0.4
28-33	32-38							0+	0+	0+	0+	0+	0+	0+
34-40	39-46							0+						0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.6	2.0	3.1	5.8	5.6	4.7	7.4	8.1	7.5	5.9	7.3	5.4	98.8
													Percentage number of hours missed	1.1

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

LONDON (KINGSWAY) (51° 31′N, 00° 07′W) 1948-54

Height of vane	
above MSL	231′
above ground	160′
above building	42′
effective height	40′

The anemograph was on a 40 ft mast on top of a building in Kingsway making it 160 ft above ground. The heights of the surrounding buildings being around 100 ft there were no prominent obstructions approaching the height of the vane and the exposure was a good one for an urban site. Although the instrument was not dismantled until 1960 data for 1955 onwards are suspect and have not therefore been used.

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							JANUARY							
Calm														0.9
1-3	1-3													7.7
4-6	4-7	1.0	1.0	1.3	0.6	0.9	0.9	1.4	1.8	2.7	2.9	2.2	1.0	17.7
7-10	8-12	2.2	1.6	2.7	2.3	0.9	0.6	1.0	4.7	8.2	6.5	3.5	1.3	35.5
11-16	13-18	0.9	0.7	1.9	0.9	0.2	0.4	0.2	3.7	8.5	5.2	1.9	0.6	25.1
17-21	19-24	0.1		0+	0.1			0.2	0.4	2.4	1.1	0.4	0.3	5.0
22-27	25-31							0+		0.2	0.2		0+	0.4
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.2	3.3	5.9	3.9	2.0	1.9	2.8	10.6	22.0	15.9	8.0	3.2	92.3
Percentage number of hours missed														7.7
							FEBRUARY							
Calm														1.1
1-3	1-3													10.7
4-6	4-7	1.0	2.1	2.3	2.3	1.3	1.0	1.7	2.7	2.9	2.2	2.3	1.4	23.2
7-10	8-12	2.5	2.4	2.0	1.9	0.8	0.4	2.3	5.3	6.5	4.7	2.9	2.0	33.7
11-16	13-18	2.0	1.7	2.9	1.2	0.2	0.3	1.6	3.6	6.0	4.0	0.6	0.6	24.7
17-21	19-24	0.2		0.2	0.1		0+	0.2	1.2	2.3	0.8	0.1		5.1
22-27	25-31								0.1	0.1	0.1			0.3
28-33	32-38								0+	0.1				0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.7	6.2	7.4	5.5	2.3	1.7	5.8	12.9	17.9	11.8	5.9	4.0	98.9
Percentage number of hours missed														1.1

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

LONDON (KINGSWAY) *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
								MARCH						
Calm														2.0
1-3	1-3													14.5
4-6	4-7	1.0	2.8	3.5	4.7	1.7	0.9	1.0	2.1	3.4	2.6	1.7	1.5	26.9
7-10	8-12	1.7	2.2	5.2	5.1	1.6	0.8	1.1	3.7	4.6	4.2	1.9	1.3	33.4
11-16	13-18	0.4	1.2	2.9	1.6	0.4	0.1	0.5	2.2	5.8	2.2	1.6	0.8	19.7
17-21	19-24			0.2	0.3			0+	0.4	1.3	0.2	0.3	0+	2.7
22-27	25-31								0+	0.1	0.1	0+		0.2
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.1	6.2	11.8	11.7	3.7	1.8	2.6	8.4	15.2	9.3	5.5	3.6	99.4
												Percentage number of hours missed		0.5
								APRIL						
Calm														1.4
1-3	1-3													14.8
4-6	4-7	1.2	1.9	3.2	3.2	1.3	0.8	0.7	1.8	2.2	2.3	2.3	1.2	22.1
7-10	8-12	2.3	1.6	3.4	4.0	0.9	0.3	0.7	2.1	5.4	5.6	3.6	2.2	32.1
11-16	13-18	0.6	0.6	1.6	1.8	0.2	0+	0.4	2.8	6.0	4.5	1.3	1.0	20.8
17-21	19-24				0+			0.2	0.4	1.3	0.9	0.1		2.9
22-27	25-31								0.3	0+	0.2			0.5
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.1	4.1	8.2	9.0	2.4	1.1	2.0	7.4	14.9	13.5	7.3	4.4	94.6
												Percentage number of hours missed		5.3
								MAY						
Calm														1.7
1-3	1-3													17.7
4-6	4-7	2.1	3.5	3.8	3.5	2.5	0.9	1.4	1.7	2.4	2.1	2.1	1.4	27.4
7-10	8-12	2.0	5.5	6.4	3.5	1.3	0.4	1.1	3.4	5.2	3.6	2.9	2.2	37.5
11-16	13-18	0.9	2.4	2.7	1.9	0.2	0.1	0.2	1.4	2.4	1.2	0.7	0.4	14.5
17-21	19-24			0.1	0.1			0+	0.1	0.1		0.1		0.5
22-27	25-31													
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.0	11.4	13.0	9.0	4.0	1.4	2.7	6.6	10.1	6.9	5.8	4.0	99.3
												Percentage number of hours missed		0.7

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

LONDON (KINGSWAY) *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350°–010°	020°–040°	050°–070°	080°–100°	110°–130°	140°–160°	170°–190°	200°–220°	230°–250°	260°–280°	290°–310°	320°–340°	All directions Total
		JUNE												
Calm														1.3
1-3	1-3													16.4
4-6	4-7	2.0	4.4	4.3	2.1	0.8	0.4	0.6	1.3	4.2	4.3	2.2	2.6	29.2
7-10	8-12	1.1	2.2	3.7	2.7	0.6	0.3	0.5	2.7	7.9	9.1	3.9	3.2	37.9
11-16	13-18	0.1	0.1	0.8	0.7	0+	0+	0.1	1.1	4.5	4.8	1.3	0.6	14.1
17-21	19-24								0.1	0.4	0.4		0+	0.9
22-27	25-31									0+				0+
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.2	6.7	8.8	5.5	1.4	0.7	1.2	5.2	17.0	18.6	7.4	6.4	99.8
		Percentage number of hours missed												0.1
		JULY												
Calm														1.5
1-3	1-3													15.4
4-6	4-7	2.2	2.5	2.2	1.8	0.6	0.3	0.8	1.3	3.6	5.6	4.9	3.4	29.2
7-10	8-12	2.2	1.2	1.3	2.0	0.5	0.1	0.9	2.5	8.1	11.3	5.3	3.5	38.9
11-16	13-18	0.8	0+	0.2	0.8	0.1		0.1	1.0	3.7	5.0	1.6	0.8	14.1
17-21	19-24								0.1	0.2	0.2	0.1		0.6
22-27	25-31										0+			0+
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.2	3.7	3.7	4.6	1.2	0.4	1.8	4.9	15.6	22.1	11.9	7.7	99.7
		Percentage number of hours missed												0.3
		AUGUST												
Calm														2.8
1-3	1-3													21.8
4-6	4-7	1.3	0.8	0.6	1.1	1.1	1.1	1.6	2.6	5.7	4.7	2.7	2.1	25.4
7-10	8-12	0.5	0.7	0.2	0.7	0.6	0.7	2.1	6.0	11.0	7.4	1.9	1.0	32.8
11-16	13-18	0.3	0.3	0.1	0+	0.1	0+	0.6	4.0	5.3	4.3	0.6	0.1	15.7
17-21	19-24								0.1	0.2	0.1	0+		0.4
22-27	25-31													
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.1	1.8	0.9	1.8	1.8	1.8	4.3	12.7	22.2	16.5	5.2	3.2	98.9
		Percentage number of hours missed												1.0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

LONDON (KINGSWAY) *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		SEPTEMBER												
Calm														2.1
1-3	1-3													17.6
4-6	4-7	0.9	1.5	1.8	2.1	1.1	0.7	1.0	3.2	4.7	4.1	2.7	1.5	25.3
7-10	8-12	0.6	1.6	2.6	2.5	0.5	0.3	1.6	5.7	9.2	6.2	3.5	1.4	35.7
11-16	13-18	0.1	0+	0.7	0.5	0+	0.2	0.7	3.8	6.0	3.7	1.2	0.5	17.4
17-21	19-24								0.2	0.6	0.2	0.2		1.2
22-27	25-31									0.1				0.1
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.6	3.1	5.1	5.1	1.6	1.2	3.3	12.9	20.6	14.2	7.6	3.4	99.4
		Percentage number of hours missed												0.5
		OCTOBER												
Calm														2.7
1-3	1-3													20.5
4-6	4-7	2.1	3.9	3.1	2.2	1.6	1.4	2.1	3.3	4.4	2.7	1.5	1.6	29.9
7-10	8-12	1.3	1.5	2.8	2.6	1.0	0.7	2.0	6.3	8.8	4.0	1.8	1.3	34.1
11-16	13-18	0.3	0.1	0.4	0.1	0.5	0.2	0.7	2.6	5.3	1.4	0.4	0.5	12.5
17-21	19-24			0+				0+	0.2	0.1	0+	0+		0.3
22-27	25-31									0+				0+
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.7	5.5	6.3	4.9	3.1	2.3	4.8	12.4	18.6	8.1	3.7	3.4	100.0
		Percentage number of hours missed												0
		NOVEMBER												
Calm														3.6
1-3	1-3													13.7
4-6	4-7	1.2	1.6	0.8	0.9	1.4	2.3	2.5	3.2	4.5	3.8	1.7	1.1	25.0
7-10	8-12	2.2	2.5	1.5	0.8	1.7	1.0	3.1	5.5	7.4	3.9	1.8	1.0	32.4
11-16	13-18	0.9	1.1	1.2	0.3	0.7	0.4	1.2	3.8	8.0	2.7	1.6	1.2	23.1
17-21	19-24	0.1		0.1	0+			0.1	0.2	0.7	0.3	0.1	0+	1.6
22-27	25-31									0+	0.1	0+	0+	0.1
28-33	32-38												0+	0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.4	5.2	3.6	2.0	3.8	3.7	6.9	12.7	20.6	10.8	5.2	3.3	99.5
		Percentage number of hours missed												0.5

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

LONDON (KINGSWAY) *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°–010°	020°–040°	050°–070°	080°–100°	110°–130°	140°–160°	170°–190°	200°–220°	230°–250°	260°–280°	290°–310°	320°–340°	All directions Total
							DECEMBER							
Calm														3.4
1-3	1-3													12.3
4-6	4-7	1.2	1.5	2.1	1.6	1.5	1.2	2.1	2.8	4.2	3.5	1.4	0.8	23.9
7-10	8-12	1.4	2.1	2.8	2.2	1.3	1.0	2.2	5.1	8.7	5.4	3.1	0.8	36.1
11-16	13-18	0.4	0.7	0.7	0.5	0.3	0.4	1.3	3.8	6.3	3.8	1.6	0.7	20.5
17-21	19-24						0+	0.4	0.3	1.3	0.7	0.4	0.1	3.2
22-27	25-31								0+	0+	0.1			0.1
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.0	4.3	5.6	4.3	3.1	2.6	6.0	12.0	20.5	13.5	6.5	2.4	99.5
							Percentage number of hours missed							0.5
							YEAR							
Calm														2.1
1-3	1-3													15.3
4-6	4-7	1.4	2.3	2.4	2.2	1.3	1.0	1.4	2.3	3.7	3.4	2.3	1.6	25.3
7-10	8-12	1.7	2.1	2.9	2.5	1.0	0.6	1.5	4.4	7.6	6.0	3.0	1.8	35.1
11-16	13-18	0.6	0.7	1.3	0.9	0.3	0.2	0.6	2.8	5.6	3.6	1.2	0.7	18.5
17-21	19-24	0+		0.1	0.1		0+	0.1	0.3	0.9	0.4	0.1	0+	2.0
22-27	25-31							0+	0+	0.1	0.1	0+	0+	0.2
28-33	32-38								0+	0+			0+	0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.7	5.1	6.7	5.7	2.6	1.8	3.6	9.8	17.9	13.5	6.6	4.1	98.5
							Percentage number of hours missed							1.5

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

HAMPTON (51° 25′N, 00° 22′W) 1951-59

Height of vane:	
above MSL	139′
above ground	101′
above building	30′
effective height	100′

The head was on a mast 30 ft above the roof of the Filter House and 101 ft above the ground. The surrounding land was fairly level and the vane was well above all local obstructions apart from two chimney stacks about 650 yd away to east and north-east.

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		JANUARY												
Calm														3.5
1-3	1-3													18.9
4-6	4-7	1.3	1.3	1.1	1.3	1.2	1.1	1.8	2.2	4.9	3.2	1.6	1.4	22.4
7-10	8-12	1.3	1.9	1.8	1.4	0.8	1.2	2.5	3.7	5.0	3.4	1.9	1.2	26.1
11-16	13-18	0.9	2.2	1.7	0.3	0.3	0.2	1.7	4.4	5.3	2.9	1.4	0.4	21.7
17-21	19-24		0.2	0.5	0.1	0+		0.2	1.2	1.5	1.4	0.3	0.1	5.5
22-27	25-31			0.1					0.2	0.4	0.4	0+	0+	1.1
28-33	32-38									0+	0+			0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.5	5.6	5.2	3.1	2.3	2.5	6.2	11.7	17.1	11.3	5.2	3.1	99.2
		Percentage number of hours missed												0.8
		FEBRUARY												
Calm														3.8
1-3	1-3													20.7
4-6	4-7	1.6	1.8	2.2	1.8	0.8	1.4	2.1	2.8	4.4	2.9	2.4	1.2	25.4
7-10	8-12	2.0	3.1	2.8	1.7	0.6	0.7	1.5	3.4	4.6	3.2	2.3	1.4	27.3
11-16	13-18	1.4	1.8	2.7	0.4	0.2	0.3	1.4	2.4	4.0	2.5	0.8	1.1	19.0
17-21	19-24	0.1	0.1	0.1			0.1	0.4	0.9	0.9	0.4	0.1	0.1	3.2
22-27	25-31	0+					0.1		0.1	0.2		0+		0.4
28-33	32-38								0+					0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.1	6.8	7.8	3.9	1.6	2.6	5.4	9.6	14.1	9.0	5.6	3.8	99.8
		Percentage number of hours missed												0.3

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

HAMPTON *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							MARCH							
Calm														3.6
1-3	1-3													20.3
4-6	4-7	1.6	1.6	4.2	4.1	1.4	2.3	2.0	1.6	1.7	1.3	1.1	1.0	23.9
7-10	8-12	1.6	3.0	5.6	3.3	1.5	2.4	2.3	3.0	2.6	1.4	1.2	0.7	28.6
11-16	13-18	0.3	2.3	3.2	1.2	0.8	0.8	1.4	2.8	3.3	1.2	0.9	0.4	18.6
17-21	19-24		0+	0.4	0.2	0+	0+	0.2	1.0	1.0	0.5	0.1	0+	3.4
22-27	25-31								0.3	0.2	0.1			0.6
28-33	32-38								0+	0+				0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.5	6.9	13.4	8.8	3.7	5.5	5.9	8.7	8.8	4.5	3.3	2.1	99.0
Percentage number of hours missed														1.0
							APRIL							
Calm														3.4
1-3	1-3													20.6
4-6	4-7	1.6	2.9	3.2	2.2	0.6	0.9	1.3	2.4	3.1	2.4	1.6	1.9	24.1
7-10	8-12	2.3	5.0	4.6	2.1	0.4	0.4	1.4	2.7	4.7	2.7	1.5	1.4	29.2
11-16	13-18	1.2	3.6	2.7	0.5		0.2	1.1	3.6	3.3	2.2	1.1	0.3	19.8
17-21	19-24		0.2	0.1				0.2	1.0	0.3	0.4	0.1		2.3
22-27	25-31			0+					0.1	0+				0.1
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.1	11.7	10.6	4.8	1.0	1.5	4.0	9.8	11.4	7.7	4.3	3.6	99.5
Percentage number of hours missed														0.4
							MAY							
Calm														3.2
1-3	1-3													21.3
4-6	4-7	1.4	2.5	2.6	3.0	1.2	1.3	1.8	2.2	3.6	2.2	1.6	1.6	25.0
7-10	8-12	2.4	4.6	3.9	2.6	0.7	0.8	2.2	3.1	3.9	2.6	1.7	1.3	29.8
11-16	13-18	1.1	2.3	1.8	0.5	0+	0.1	1.2	3.2	3.9	1.8	0.8	0.3	17.0
17-21	19-24	0.1	0.1	0.5	0.1			0.1	0.8	1.1	0.5	0+		3.3
22-27	25-31								0+	0.1	0+	0+		0.1
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.0	9.5	8.8	6.2	1.9	2.2	5.3	9.3	12.6	7.1	4.1	3.2	99.7
Percentage number of hours missed														0.3

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

HAMPTON *(contd)*

Mean wind speed		Percentage number of hours with winds from												All directions
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	Total
		JUNE												
Calm														2.8
1-3	1-3													24.8
4-6	4-7	2.1	2.5	1.8	1.7	1.1	0.9	1.7	3.2	3.6	3.0	2.4	1.7	25.7
7-10	8-12	1.8	2.8	2.2	1.7	1.3	0.7	1.4	4.3	4.6	3.9	3.5	1.3	29.5
11-16	13-18	0.2	0.4	1.1	0.8	0.4	0.4	0.4	3.5	3.7	2.8	1.1	0.5	15.3
17-21	19-24			0+	0+			0+	0.4	0.4	0.1	0.1	0+	1.0
22-27	25-31								0+					0+
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.1	5.7	5.1	4.2	2.8	2.0	3.5	11.4	12.3	9.8	7.1	3.5	99.1
Percentage number of hours missed														0.9
		JULY												
Calm														2.7
1-3	1-3													22.2
4-6	4-7	1.3	2.3	2.3	1.7	0.5	0.7	1.5	2.9	5.0	3.5	2.8	1.6	26.1
7-10	8-12	1.0	2.7	2.1	1.2	0.1	0.2	1.2	4.5	7.2	4.7	3.2	1.1	29.2
11-16	13-18	0.3	0.7	0.6	0.2		0+	0.8	4.0	6.8	3.0	0.8	0.2	17.4
17-21	19-24	0+						0+	0.5	1.2	0.3			2.0
22-27	25-31							0+	0+	0.1				0.1
28-33	32-38									0+				0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.6	5.7	5.0	3.1	0.6	0.9	3.5	11.9	20.3	11.5	6.8	2.9	99.7
Percentage number of hours missed														0.3
		AUGUST												
Calm														3.6
1-3	1-3													26.9
4-6	4-7	0.6	1.2	2.4	1.6	0.6	1.2	2.1	3.8	5.8	2.8	2.6	1.4	26.1
7-10	8-12	0.5	1.5	1.1	1.6	0.4	0.7	1.7	4.6	6.5	3.0	1.8	0.8	24.2
11-16	13-18	0.3	0.4	0.2	0.2	0.1	0.2	0.9	4.3	5.7	2.7	0.3	0.2	15.5
17-21	19-24							0+	0.3	1.3	0.4	0+		2.0
22-27	25-31									0.1	0.1			0.2
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.4	3.1	3.7	3.4	1.1	2.1	4.7	13.0	19.4	9.0	4.7	2.4	98.5
Percentage number of hours missed														1.6

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

HAMPTON *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							SEPTEMBER							
Calm														3.8
1-3	1-3													23.2
4-6	4-7	0.9	1.7	2.8	2.8	1.2	1.4	2.1	3.1	5.2	3.0	2.0	0.8	27.0
7-10	8-12	0.5	2.1	3.7	2.8	0.7	0.8	1.8	4.4	5.3	3.3	1.8	0.5	27.7
11-16	13-18	0.1	0.7	1.0	0.6	0.2	0.1	1.2	3.2	5.4	2.1	0.8	0.1	15.5
17-21	19-24		0+		0+				0.6	0.8	0.5			1.9
22-27	25-31								0.1	0.2				0.3
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.5	4.5	7.5	6.2	2.1	2.3	5.1	11.4	16.9	8.9	4.6	1.4	99.4
										Percentage number of hours missed				0.8
							OCTOBER							
Calm														4.5
1-3	1-3													28.7
4-6	4-7	1.6	1.3	2.0	2.3	1.1	1.3	1.9	2.7	4.2	2.4	2.3	1.6	24.7
7-10	8-12	0.9	0.8	1.1	1.4	0.7	1.0	1.8	4.8	5.8	3.2	1.8	1.3	24.6
11-16	13-18	0.7	0.5	0.1	0.3	0.2	0.5	1.0	3.2	4.7	1.5	1.1	0.8	14.6
17-21	19-24	0+	0+		0+		0.1	0.2	0.6	0.5	0.3	0.1	0+	1.8
22-27	25-31								0.1	0.1	0.1			0.3
28-33	32-38								0+		0+			0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.2	2.6	3.2	4.0	2.0	2.9	4.9	11.4	15.3	7.5	5.3	3.7	99.2
										Percentage number of hours missed				0.8
							NOVEMBER							
Calm														2.4
1-3	1-3													24.0
4-6	4-7	2.5	2.0	1.9	1.8	1.8	2.6	2.4	3.0	3.7	2.8	3.0	1.8	29.3
7-10	8-12	2.8	1.8	1.7	1.9	0.9	1.9	2.5	3.1	3.3	1.8	1.5	1.2	24.4
11-16	13-18	0.6	0.8	0.9	0.6	0.4	0.9	2.9	3.1	2.4	1.9	0.8	0.4	15.7
17-21	19-24		0.1	0.1	0+	0.1	0.2	0.5	0.7	0.6	0.5	0.2	0.1	3.1
22-27	25-31						0+	0.1	0.1	0.1	0.1	0+	0+	0.4
28-33	32-38							0+	0+	0+		0+		0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.9	4.7	4.6	4.3	3.2	5.6	8.4	10.0	10.1	7.1	5.5	3.5	99.3
										Percentage number of hours missed				0.5

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

HAMPTON *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
								DECEMBER						
Calm														2.8
1-3	1-3													22.8
4-6	4-7	1.3	0.8	1.3	1.9	1.5	2.0	2.3	2.9	4.3	2.4	1.2	0.8	22.7
7-10	8-12	0.8	0.9	1.2	1.4	1.0	1.2	2.8	4.6	6.6	2.2	0.9	0.6	24.2
11-16	13-18	0.1	0.8	0.7	0.5	0.6	1.1	2.1	4.2	6.6	2.4	0.4	0.2	19.7
17-21	19-24		0+	0.1	0.1	0.2	0.1	0.5	2.5	1.7	1.1	0.2		6.5
22-27	25-31							0.1	0.2	0.4	0.4	0+		1.1
28-33	32-38										0+			0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.2	2.5	3.3	3.9	3.3	4.4	7.8	14.4	19.6	8.5	2.7	1.6	99.8
Percentage number of hours missed														0.2
								YEAR						
Calm														3.3
1-3	1-3													22.9
4-6	4-7	1.5	1.8	2.3	2.2	1.1	1.4	1.9	2.7	4.1	2.7	2.0	1.4	25.1
7-10	8-12	1.5	2.5	2.6	1.9	0.8	1.0	1.9	3.9	5.0	2.9	1.9	1.1	27.0
11-16	13-18	0.6	1.4	1.4	0.5	0.3	0.4	1.3	3.5	4.6	2.2	0.9	0.4	17.5
17-21	19-24	0+	0.1	0.2	0+	0+	0+	0.2	0.9	0.9	0.5	0.1	0+	2.9
22-27	25-31	0+		0+			0+	0+	0.1	0.2	0.1	0+	0+	0.4
28-33	32-38							0+	0+	0+	0+	0+		0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.6	5.8	6.5	4.6	2.2	2.8	5.3	11.1	14.8	8.4	4.9	2.9	99.1
Percentage number of hours missed														0.7

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

KEW (51° 28′N, 00° 19′W) 1950-59

Height of vane:	
above MSL	92′
above ground	75′
above building	32′
effective height	50′

The site was in the Old Deer Park, a level piece of ground covered with short grass, with large trees scattered around reaching a height of 80-100 ft. These trees gave shelter from the wind so that the force reported should not be taken as representative of the more exposed country around London.

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		JANUARY												
Calm														1.8
1-3	1-3													16.7
4-6	4-7	1.9	1.3	1.3	1.6	1.3	1.1	1.9	3.9	6.0	4.0	1.4	1.1	26.8
7-10	8-12	1.6	2.6	1.6	1.2	1.0	1.3	2.5	3.9	4.6	3.8	1.4	1.7	27.2
11-16	13-18	1.2	2.3	1.9	1.1	0.2	0.6	2.4	4.5	2.9	2.3	1.2	0.7	21.3
17-21	19-24	0.3	0.6	0.6	0.2		0+	0.3	1.9	0.4	0.5	0.2	0.3	5.3
22-27	25-31		0+	0.3	0+				0.3	0.2	0+	0+	0+	0.8
28-33	32-38			0+										0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	> 72													
TOTAL		5.0	6.8	5.7	4.1	2.5	3.0	7.1	14.5	14.1	10.6	4.2	3.8	99.9
Percentage number of hours missed														0
		FEBRUARY												
Calm														1.7
1-3	1-3													14.7
4-6	4-7	1.5	2.2	1.6	1.5	1.1	0.8	3.2	4.5	4.9	2.9	1.9	1.8	27.9
7-10	8-12	2.0	3.7	2.3	1.3	0.6	0.9	2.5	4.9	4.6	3.2	1.2	1.8	29.0
11-16	13-18	1.9	2.8	3.1	0.9	0.2	0.5	1.9	3.0	3.5	1.3	0.3	1.0	20.4
17-21	19-24	0.8	0.4	0.7	0.2	0+	0.1	0.8	1.2	1.2	0.1	0+	0.2	5.7
22-27	25-31	0.1	0+		0+		0+	0.1	0.3					0.5
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.3	9.1	7.7	3.9	1.9	2.3	8.5	13.9	14.2	7.5	3.4	4.8	99.9
Percentage number of hours missed														0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

KEW *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
		MARCH												
Calm														2.3
1-3	1-3													15.2
4-6	4-7	1.4	1.8	2.6	3.3	2.1	1.4	2.9	2.5	2.4	2.1	1.2	1.4	25.1
7-10	8-12	1.9	2.7	4.1	4.1	1.9	2.0	2.9	3.7	2.5	1.7	0.9	1.1	29.5
11-16	13-18	0.9	3.6	3.4	2.6	0.4	1.1	1.8	3.4	2.8	0.8	0.6	0.5	21.9
17-21	19-24	0.1	0.5	1.1	0.4		0.1	0.4	1.2	1.0	0.2	0.1	0.2	5.3
22-27	25-31			0.3	0.1			0+	0.2	0.1				0.7
28-33	32-38							0+	0+					0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.3	8.6	11.5	10.5	4.4	4.6	8.0	11.0	8.8	4.8	2.8	3.2	100.0
		Percentage number of hours missed												0
		APRIL												
Calm														2.1
1-3	1-3													15.0
4-6	4-7	1.8	2.7	2.1	1.7	1.2	0.6	2.2	3.5	3.9	2.6	1.5	1.8	25.6
7-10	8-12	3.2	4.0	4.1	2.4	0.7	0.5	1.8	3.7	4.2	3.1	1.4	2.0	31.1
11-16	13-18	2.1	4.8	2.7	1.5	0.1	0.2	1.4	3.5	2.6	1.6	0.9	1.0	22.4
17-21	19-24	0.2	1.0	0.1	0.2			0.2	1.1	0.6	0.2	0.1	0.1	3.8
22-27	25-31		0+					0+	0+					0+
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		7.3	12.5	9.0	5.8	2.0	1.3	5.6	11.8	11.3	7.5	3.9	4.9	100.0
		Percentage number of hours missed												0
		MAY												
Calm														2.4
1-3	1-3													13.7
4-6	4-7	2.5	2.5	2.9	2.0	1.5	1.0	2.0	3.1	3.6	2.4	1.2	1.9	26.6
7-10	8-12	2.3	5.1	3.5	3.7	0.9	0.8	2.8	4.3	3.5	2.4	1.2	1.7	32.2
11-16	13-18	0.7	4.9	2.9	1.7	0.2	0.2	1.5	4.6	2.1	1.0	0.5	0.6	20.9
17-21	19-24	0.1	0.4	0.6	0.6	0+		0.3	1.3	0.5	0.1	0.1		4.0
22-27	25-31	0+		0.1				0+	0.1	0+		0+		0.2
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.6	12.9	10.0	8.0	2.6	2.0	6.6	13.4	9.7	5.9	3.0	4.2	100.0
		Percentage number of hours missed												0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

KEW *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
								JUNE						
Calm														3.4
1-3	1-3													14.5
4-6	4-7	2.1	2.0	1.6	1.7	0.6	0.7	2.4	4.4	5.7	3.6	2.4	2.3	29.5
7-10	8-12	1.8	4.0	2.3	2.0	0.6	0.5	2.0	5.8	5.7	3.6	2.2	2.1	32.6
11-16	13-18	0.5	1.9	2.1	1.9	0.1	0.2	1.0	5.0	2.8	1.5	0.7	0.4	18.1
17-21	19-24	0+	0.1	0.3	0.3		0+	0.1	0.8	0.2	0+	0+	0+	1.8
22-27	25-31								0+					0+
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.4	8.0	6.3	5.9	1.3	1.4	5.5	16.0	14.4	8.7	5.3	4.8	99.9
													Percentage number of hours missed	0
								JULY						
Calm														3.4
1-3	1-3													14.4
4-6	4-7	2.4	2.5	1.3	1.2	0.7	0.7	1.7	4.1	6.2	4.1	2.8	2.7	30.4
7-10	8-12	1.5	3.4	2.3	1.3	0.3	0.5	2.7	5.8	7.0	4.4	2.2	1.7	33.1
11-16	13-18	0.6	1.1	1.1	0.6	0+	0.1	1.0	4.8	4.0	1.6	0.8	0.4	16.1
17-21	19-24	0+	0.1	0.2	0.1			0.1	1.1	0.6	0.2			2.4
22-27	25-31							0+	0.1	0.1				0.2
28-33	32-38									0+				0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.5	7.1	4.9	3.2	1.0	1.3	5.5	15.9	17.9	10.3	5.8	4.8	100.0
													Percentage number of hours missed	0
								AUGUST						
Calm														4.0
1-3	1-3													17.6
4-6	4-7	1.1	1.5	1.1	1.4	1.1	1.3	3.0	5.8	5.4	3.5	2.2	2.4	29.8
7-10	8-12	0.9	1.5	1.8	1.3	0.5	1.0	2.6	7.0	7.5	3.3	1.5	1.6	30.5
11-16	13-18	0.6	1.0	0.9	0.9	0.1	0.3	1.5	5.0	4.1	1.3	0.2	0.1	16.0
17-21	19-24		0.1		0+			0.1	1.0	0.5	0.1	0.1	0+	1.9
22-27	25-31								0.1	0.1				0.2
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.6	4.1	3.8	3.6	1.7	2.6	7.2	18.9	17.6	8.2	4.0	4.1	100.0
													Percentage number of hours missed	0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

KEW *(contd)*

Mean wind speed		Percentage number of hours with winds from												All directions
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	Total
		SEPTEMBER												
Calm														1.9
1-3	1-3													18.3
4-6	4-7	1.3	1.8	1.9	1.8	1.2	1.3	2.4	4.9	6.7	3.4	1.8	1.2	29.7
7-10	8-12	1.1	2.6	3.7	2.2	0.9	1.0	2.4	5.2	5.6	3.1	1.6	0.9	30.3
11-16	13-18	0.2	1.2	2.1	0.9	0.2	0.5	2.0	4.3	3.1	1.7	0.7	0.4	17.3
17-21	19-24		0.1	0.1	0.1			0.1	0.9	0.7	0.2		0+	2.2
22-27	25-31								0.1	0.1				0.2
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.6	5.7	7.8	5.0	2.3	2.8	6.9	15.4	16.2	8.4	4.1	2.5	99.9
Percentage number of hours missed														0
		OCTOBER												
Calm														3.6
1-3	1-3													22.7
4-6	4-7	2.1	2.8	2.3	2.5	1.7	1.4	2.6	4.5	5.0	2.4	1.6	1.8	30.7
7-10	8-12	1.1	1.5	1.8	1.1	0.8	1.3	2.1	5.4	5.2	2.7	1.9	1.8	26.7
11-16	13-18	0.8	0.6	0.4	0.3	0.5	0.6	1.0	4.4	2.9	0.5	0.9	0.7	13.6
17-21	19-24	0.4	0.1				0.1	0.2	0.8	0.4	0.2	0.1	0.1	2.4
22-27	25-31						0+		0.1	0.1	0+		0+	0.2
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.4	5.0	4.5	3.9	3.0	3.4	5.9	15.2	13.6	5.8	4.5	4.4	99.9
Percentage number of hours missed														0
		NOVEMBER												
Calm														2.5
1-3	1-3													19.8
4-6	4-7	2.7	2.2	0.9	1.8	1.8	1.8	3.0	4.9	4.8	2.3	1.7	2.2	30.1
7-10	8-12	3.2	2.3	1.4	1.5	1.2	1.3	2.5	3.9	4.0	1.6	1.2	2.0	26.1
11-16	13-18	1.7	0.8	1.6	0.9	0.5	1.4	2.8	3.5	1.7	1.1	0.5	0.8	17.3
17-21	19-24	0.1	0.1	0.3	0.2	0.1	0.3	0.5	1.0	0.5	0.4	0.1	0.1	3.7
22-27	25-31	0+			0+		0+	0.2	0.2	0.1		0+	0+	0.5
28-33	32-38								0+	0+				0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		7.7	5.4	4.2	4.4	3.6	4.8	9.0	13.5	11.1	5.4	3.5	5.1	100.0
Percentage number of hours missed														0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

KEW *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							DECEMBER							
Calm														2.9
1-3	1-3													19.3
4-6	4-7	1.9	1.4	1.2	1.3	1.7	1.3	3.5	5.0	4.9	2.8	1.3	1.2	27.5
7-10	8-12	1.5	0.8	1.6	1.3	1.3	1.1	3.4	5.0	5.0	2.1	1.0	1.2	25.3
11-16	13-18	0.4	0.8	1.1	0.7	0.8	0.9	2.4	4.4	4.0	1.3	0.7	0.5	18.0
17-21	19-24	0+	0.3	0.3	0.1	0.3	0.3	0.7	2.7	0.9	0.2	0.3	0.2	6.3
22-27	25-31			0+			0+	0.1	0.3	0.1	0+	0.1	0+	0.6
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.8	3.3	4.2	3.4	4.1	3.6	10.1	17.4	14.9	6.4	3.4	3.1	99.9
									Percentage number of hours missed					0
							YEAR							
Calm														2.7
1-3	1-3													16.8
4-6	4-7	1.9	2.1	1.7	1.8	1.3	1.1	2.6	4.2	5.0	3.0	1.8	1.8	28.3
7-10	8-12	1.8	2.8	2.6	2.0	0.9	1.0	2.5	4.9	4.9	2.9	1.5	1.6	29.4
11-16	13-18	1.0	2.2	1.9	1.2	0.3	0.6	1.7	4.2	3.0	1.3	0.7	0.6	18.7
17-21	19-24	0.2	0.3	0.3	0.2	0+	0.1	0.3	1.3	0.6	0.2	0.1	0.1	3.7
22-27	25-31	0+	0+	0.1	0+		0+	0+	0.1	0.1	0+	0+	0+	0.3
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.9	7.4	6.6	5.2	2.5	2.8	7.1	14.7	13.6	7.4	4.1	4.1	99.9
									Percentage number of hours missed					0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

CROYDON (51° 21′N, 00° 07′W) 1950-58

Height of vane:	
above MSL	313′
above ground	105′
above building	49′
effective height	70′

The anemograph was on a 49 ft lattice steel mast on top of the Control Tower 105 ft above the ground and well above the surrounding buildings providing a good exposure. The ground was flat to the north and west but hills about 2 miles to the east rise to 250 ft above the station and there was a gradual rise to about 140 ft above the station one mile to the south.

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°–010°	020°–040°	050°–070°	080°–100°	110°–130°	140°–160°	170°–190°	200°–220°	230°–250°	260°–280°	290°–310°	320°–340°	All directions Total
		JANUARY												
Calm														6.1
1-3	1-3													13.7
4-6	4-7	0.6	1.2	1.3	1.1	0.7	0.9	1.9	1.8	2.0	2.4	1.6	0.8	16.3
7-10	8-12	1.2	2.4	1.6	1.4	0.6	1.3	3.1	3.9	3.8	4.2	1.8	1.1	26.4
11-16	13-18	1.1	1.8	1.7	1.0	0.5	1.1	2.5	4.4	5.7	4.3	1.9	0.8	26.8
17-21	19-24	0.1	0.2	0.6	0.1		0.1	0.3	1.4	2.4	1.9	0.5	0.2	7.8
22-27	25-31	0+	0+	0.3				0.1	0.5	0.8	0.8	0.1	0+	2.6
28-33	32-38								0+	0.1	0.1	0.1		0.3
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.0	5.6	5.5	3.6	1.8	3.4	7.9	12.0	14.8	13.7	6.0	2.9	100.0
Percentage number of hours missed														0
		FEBRUARY												
Calm														8.7
1-3	1-3													14.3
4-6	4-7	0.8	2.0	1.6	0.5	0.2	0.7	2.0	1.9	1.8	2.2	1.6	1.0	16.3
7-10	8-12	1.5	3.3	2.2	0.7	0.4	1.0	3.8	4.5	3.5	2.7	2.0	1.2	26.8
11-16	13-18	1.4	2.1	2.2	0.5	0.2	0.6	2.8	4.2	4.5	3.5	0.8	1.6	24.4
17-21	19-24	0.5	0.3	0.2	0+		0.1	1.0	1.3	1.8	1.3	0.1	0.3	6.9
22-27	25-31		0.1				0+	0.5	0.6	0.6	0.5		0+	2.3
28-33	32-38							0.1	0+	0+				0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.2	7.8	6.2	1.7	0.8	2.4	10.2	12.5	12.2	10.2	4.5	4.1	99.8
Percentage number of hours missed														0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

CROYDON *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°–010°	020°–040°	050°–070°	080°–100°	110°–130°	140°–160°	170°–190°	200°–220°	230°–250°	260°–280°	290°–310°	320°–340°	All directions Total
								MARCH						
Calm														8.5
1-3	1-3													16.9
4-6	4-7	0.5	1.1	2.6	2.4	1.0	2.3	2.6	1.8	0.7	1.4	1.3	0.9	18.6
7-10	8-12	1.5	2.6	4.3	2.5	1.0	2.0	3.0	2.5	1.4	1.8	1.6	1.1	25.3
11-16	13-18	1.0	2.0	3.6	1.8	0.8	1.2	1.8	3.9	3.6	1.2	1.0	0.7	22.6
17-21	19-24	0.1	0.2	0.8	0.2	0.1	0.1	0.5	1.2	1.3	0.7	0.2	0.1	5.5
22-27	25-31		0.1	0.2	0+		0+	0.1	0.5	1.0	0.3	0+		2.2
28-33	32-38								0.1	0.1	0.1			0.3
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.1	6.0	11.5	6.9	2.9	5.6	8.0	10.0	8.1	5.5	4.1	2.8	99.9
										Percentage number of hours missed				0
								APRIL						
Calm														9.2
1-3	1-3													17.3
4-6	4-7	1.2	2.8	3.2	1.5	0.5	0.9	2.1	1.4	1.1	1.9	1.6	1.3	19.5
7-10	8-12	2.7	3.7	3.5	1.1	0.4	0.7	2.4	3.7	2.7	3.2	1.9	1.8	27.8
11-16	13-18	1.1	2.3	2.5	0.9	0.1	0.1	1.0	3.7	3.5	3.1	1.7	1.4	21.4
17-21	19-24	0.1	0.2	0.3	0.1			0.3	1.1	0.7	0.5	0.3	0.1	3.7
22-27	25-31		0+					0+	0.2	0.3	0.3	0.1		0.9
28-33	32-38									0+	0.1			0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.1	9.0	9.5	3.6	1.0	1.7	5.8	10.1	8.3	9.1	5.6	4.6	99.9
										Percentage number of hours missed				0
								MAY						
Calm														8.2
1-3	1-3													19.3
4-6	4-7	1.0	2.1	2.4	2.3	0.8	1.8	2.9	2.2	2.0	1.9	1.5	1.2	22.1
7-10	8-12	1.6	2.2	3.3	3.2	0.6	0.9	3.9	3.5	2.7	2.5	1.3	1.2	26.9
11-16	13-18	0.8	1.2	1.2	2.2	0.1	0.2	1.8	4.4	3.3	1.8	1.1	0.5	18.6
17-21	19-24	0.1	0+	0.3	0.5			0.3	1.4	1.0	0.5	0.1	0+	4.2
22-27	25-31			0.1	0+			0+	0.1	0.1	0.2	0.1		0.6
28-33	32-38									0+				0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.5	5.5	7.3	8.2	1.5	2.9	8.9	11.6	9.1	6.9	4.1	2.9	99.9
										Percentage number of hours missed				0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

CROYDON *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
								JUNE						
Calm														9.6
1-3	1-3													21.6
4-6	4-7	1.3	2.2	1.9	1.4	0.4	0.9	3.1	3.0	2.4	2.3	2.2	1.3	22.4
7-10	8-12	1.4	1.8	1.5	1.6	0.5	0.8	3.5	5.7	4.5	3.2	2.4	1.2	28.1
11-16	13-18	0.2	0.1	0.6	1.6	0.2	0.3	1.2	4.6	3.7	2.1	1.2	0.6	16.4
17-21	19-24			0.1	0.1	0+		0.3	0.5	0.5	0.3	0+	0.1	1.9
22-27	25-31				0+			0+	0+	0.1				0.1
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.9	4.1	4.1	4.7	1.1	2.0	8.1	13.8	11.2	7.9	5.8	3.2	100.1
											Percentage number of hours missed			0
								JULY						
Calm														9.8
1-3	1-3													18.5
4-6	4-7	1.3	2.1	2.2	1.1	0.4	0.6	2.2	3.0	2.8	3.3	2.3	1.1	22.4
7-10	8-12	0.6	1.3	1.3	0.7	0.2	0.5	2.4	5.4	5.7	5.0	2.0	1.0	26.1
11-16	13-18	0.2	0.5	0.4	0.3	0+	0.1	1.9	5.4	6.0	3.3	0.8	0.4	19.3
17-21	19-24	0+	0.1	0.1	0.2			0.1	0.8	1.5	0.5	0.1		3.4
22-27	25-31							0+	0.1	0.2	0.1	0+		0.4
28-33	32-38							0+	0+	0.1				0.1
34-40	39-46							0+						0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.1	4.0	4.0	2.3	0.6	1.2	6.6	14.7	16.3	12.2	5.2	2.5	100.0
											Percentage number of hours missed			0
								AUGUST						
Calm														10.3
1-3	1-3													19.8
4-6	4-7	0.6	0.4	1.0	0.8	0.5	1.3	3.3	4.5	3.2	2.6	1.9	1.0	21.1
7-10	8-12	0.6	0.4	1.0	0.6	0.3	0.9	3.6	7.2	5.6	3.0	0.9	0.5	24.6
11-16	13-18	0.6	0.1	0.5	0.2	0.1	0.5	2.1	7.1	6.0	2.7	0.3	0.3	20.5
17-21	19-24	0.1					0.1	0.4	1.2	0.8	0.4	0.1		3.1
22-27	25-31						0+	0.1	0.3	0.1	0+			0.5
28-33	32-38								0+					0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.9	0.9	2.5	1.6	0.9	2.8	9.5	20.3	15.7	8.7	3.2	1.8	99.9
											Percentage number of hours missed			0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

CROYDON *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° 010°	020° 040°	050° 070°	080° 100°	110° 130°	140° 160°	170° 190°	200° 220°	230° 250°	260° 280°	290° 310°	320° 340°	All directions Total
							SEPTEMBER							
Calm														11.5
1-3	1-3													16.2
4-6	4-7	0.7	0.8	1.5	1.2	0.8	1.5	2.4	2.4	2.4	3.3	1.8	0.6	19.4
7-10	8-12	0.5	0.7	1.2	1.2	0.5	1.3	3.4	5.4	5.6	4.6	2.0	0.8	27.2
11-16	13-18	0.3	0.5	0.7	0.7	0.1	0.6	1.9	5.1	5.6	3.4	1.3	0.4	20.6
17-21	19-24			0+	0+		0+	0.4	1.0	1.4	0.9	0.2		3.9
22-27	25-31							0+	0.3	0.4	0.3			1.0
28-33	32-38								0+					0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.5	2.0	3.4	3.1	1.4	3.4	8.1	14.2	15.4	12.5	5.3	1.8	99.8
									Percentage number of hours missed					0
							OCTOBER							
Calm														15.4
1-3	1-3													21.4
4-6	4-7	0.6	1.1	0.9	1.2	0.8	1.4	2.2	2.4	1.8	2.4	1.7	0.6	17.1
7-10	8-12	0.6	0.9	0.4	1.0	0.7	1.9	3.4	4.8	3.8	3.5	1.4	0.7	23.1
11-16	13-18	0.8	0.3	0.2	0.3	0.4	0.9	3.1	4.8	4.4	2.0	0.7	0.4	18.3
17-21	19-24	0.3			0+	0+	0+	0.9	1.3	0.8	0.6	0.1	0+	4.0
22-27	25-31							0.1	0.3	0.2	0.2			0.8
28-33	32-38								0+		0.1			0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.3	2.3	1.5	2.5	1.9	4.2	9.7	13.6	11.0	8.8	3.9	1.7	100.2
									Percentage number of hours missed					0
							NOVEMBER							
Calm														12.2
1-3	1-3													21.8
4-6	4-7	1.2	1.2	0.9	0.8	1.0	1.8	2.4	1.6	1.9	2.4	1.3	0.9	17.4
7-10	8-12	1.1	1.2	1.0	0.6	1.0	2.8	2.9	3.7	3.0	2.5	1.3	1.6	22.7
11-16	13-18	1.1	0.7	1.1	0.4	0.4	1.8	2.5	3.7	3.5	2.4	1.3	1.4	20.3
17-21	19-24	0.1		0.2	0+	0+	0.4	0.4	1.0	0.9	0.6	0.2	0.1	3.9
22-27	25-31					0+	0.1	0.2	0.5	0.3	0.3	0+	0+	1.4
28-33	32-38							0.1	0.1	0+	0+	0+	0+	0.2
34-40	39-46							0+		0+				0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.5	3.1	3.2	1.8	2.4	6.9	8.5	10.6	9.6	8.2	4.1	4.0	99.9
									Percentage number of hours missed					0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

CROYDON *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		DECEMBER												
Calm														12.4
1-3	1-3													18.0
4-6	4-7	0.6	1.0	1.0	1.0	1.4	2.1	2.3	2.5	2.0	1.8	1.2	0.6	17.5
7-10	8-12	0.4	0.7	1.5	0.7	1.1	1.6	4.1	3.9	3.3	2.5	1.4	0.6	21.8
11-16	13-18	0.2	0.9	0.8	0.2	0.5	1.2	3.4	4.3	5.0	3.1	1.0	0.5	21.1
17-21	19-24		0.1	0.2		0+	0.3	0.8	1.8	1.7	1.2	0.4	0.1	6.6
22-27	25-31						0.1	0.1	0.5	0.9	0.5	0.1	0.1	2.3
28-33	32-38							0+	0.1	0.1	0.1	0+	0+	0.3
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.2	2.7	3.5	1.9	3.0	3.3	10.7	13.1	13.0	9.2	4.1	1.9	100.0
													Percentage number of hours missed	0
		YEAR												
Calm														10.2
1-3	1-3													18.2
4-6	4-7	0.9	1.5	1.7	1.3	0.7	1.3	2.5	2.4	2.0	2.3	1.6	1.0	19.2
7-10	8-12	1.1	1.8	1.9	1.3	0.6	1.3	3.3	4.5	3.8	3.2	1.7	1.1	25.6
11-16	13-18	0.7	1.0	1.3	0.8	0.3	0.7	2.2	4.6	4.6	2.7	1.1	0.8	20.8
17-21	19-24	0.1	0.1	0.2	0.1	0+	0.1	0.5	1.2	1.2	0.8	0.2	0.1	4.6
22-27	25-31	0+	0+	0.1	0+	0+	0+	0.1	0.3	0.4	0.3	0+	0+	1.2
28-33	32-38							0+	0+	0+	0+	0+	0+	0+
34-40	39-46							0+		0+				0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.8	4.4	5.2	3.5	1.6	3.4	8.6	13.0	12.0	9.3	4.6	3.0	99.8
													Percentage number of hours missed	0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

THORNEY ISLAND (50° 49′N, 00° 56′W) 1950-59

Height of vane:	
above MSL	75′
above ground	65′
above building	17′
effective height	42′

The anemograph was sheltered to some extent by trees in all directions, although most of the trees were below the level of the head of the anemometer. Buildings to the south and south-east may also have had a slight effect on winds from those directions.

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		JANUARY												
Calm														6.1
1-3	1-3													20.0
4-6	4-7	1.2	1.6	1.5	1.5	0.7	0.6	0.7	1.5	1.4	1.6	3.3	1.8	17.4
7-10	8-12	2.3	2.8	2.8	1.8	1.0	0.7	1.5	2.5	3.1	3.4	3.4	1.4	26.7
11-16	13-18	1.4	1.7	1.4	0.8	0.6	0.8	2.2	3.3	3.0	4.3	2.3	0.9	22.7
17-21	19-24	0.3	0.1	0.2	0.1	0+	0.1	0.2	1.0	1.1	0.9	0.7	0.2	4.9
22-27	25-31	0.1	0+	0+	0.1			0.1	0.5	0.5	0.1	0.2	0.1	1.7
28-33	32-38	0+							0.1		0+	0.1		0.2
34-40	39-46								0+					0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.3	6.2	5.9	4.3	2.3	2.2	4.7	8.9	9.1	10.3	10.0	4.4	99.7
		Percentage number of hours missed												0.3
		FEBRUARY												
Calm														5.8
1-3	1-3													22.4
4-6	4-7	1.2	1.9	1.9	1.4	0.5	0.7	0.8	1.6	1.2	1.8	3.1	1.9	18.0
7-10	8-12	1.6	3.1	2.5	0.9	0.8	1.3	1.9	2.9	3.1	2.5	2.5	1.9	25.0
11-16	13-18	1.8	1.5	3.3	0.6	0.5	0.6	2.0	2.6	3.3	2.8	1.3	1.1	21.4
17-21	19-24	0.7	0.1	0.1	0+	0+	0.2	0.7	1.2	1.5	0.5	0.2	0.4	5.6
22-27	25-31	0.2	0+				0.1	0.4	0.3	0.2	0.1	0+	0+	1.3
28-33	32-38						0.1	0.1	0+					0.2
34-40	39-46						0+	0+						0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.5	6.6	7.8	2.9	1.8	3.0	5.9	8.6	9.3	7.7	7.1	5.3	99.7
		Percentage number of hours missed												0.3

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

THORNEY ISLAND *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
								MARCH						
Calm														4.2
1-3	1-3													20.7
4-6	4-7	1.4	2.2	2.4	3.6	1.3	0.8	1.4	1.7	1.3	1.6	1.7	0.8	20.2
7-10	8-12	1.7	2.9	3.9	4.5	2.1	1.1	2.6	2.0	1.7	1.9	1.4	0.8	26.6
11-16	13-18	0.9	2.0	2.6	2.0	1.4	1.4	2.3	2.4	3.0	1.6	1.1	0.6	21.3
17-21	19-24	0.3	0.3	0.6	0.4	0.1	0.3	0.6	0.8	1.2	0.2	0.2	0.1	5.1
22-27	25-31		0+	0.1	0.1	0+	0+	0.1	0.5	0.4	0+		0+	1.2
28-33	32-38								0.1	0+				0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.3	7.4	9.6	10.6	4.9	3.6	7.0	7.5	7.6	5.3	4.4	2.3	99.4
Percentage number of hours missed														0.6
								APRIL						
Calm														4.3
1-3	1-3													23.6
4-6	4-7	2.0	2.7	2.2	1.4	0.8	0.8	1.8	2.3	1.6	1.3	1.9	1.6	20.4
7-10	8-12	2.1	4.2	2.9	1.1	0.9	0.5	1.8	2.8	2.9	2.7	2.1	1.3	25.3
11-16	13-18	1.9	3.2	2.2	0.7	0.3	0.6	1.0	2.1	3.2	2.4	2.4	1.0	21.0
17-21	19-24	0.2	0.4	0.2			0.1	0.5	0.5	0.9	0.6	0.4	0.1	3.9
22-27	25-31	0+					0+	0.1	0.1	0.3	0+	0.1	0+	0.6
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.2	10.5	7.5	3.2	2.0	2.0	5.2	7.8	8.9	7.0	6.9	4.0	99.1
Percentage number of hours missed														0.9
								MAY						
Calm														3.6
1-3	1-3													23.2
4-6	4-7	1.3	2.5	2.3	1.9	1.4	0.7	2.0	2.4	1.6	1.7	2.5	1.1	21.4
7-10	8-12	1.7	3.7	2.5	1.7	1.8	1.0	2.5	3.6	2.9	2.1	2.5	1.2	27.2
11-16	13-18	1.3	2.6	2.0	1.0	0.5	0.1	1.7	3.1	3.8	1.7	1.3	0.7	19.8
17-21	19-24	0.1	0.2	0.6	0.3			0.3	0.8	1.0	0.2	0.3	0+	3.8
22-27	25-31	0.1	0+		0+			0+	0.1	0.2	0+	0.1	0+	0.5
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.5	9.0	7.4	4.9	3.7	1.8	6.5	10.0	9.5	5.7	6.7	3.0	99.5
Percentage number of hours missed														0.5

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

THORNEY ISLAND *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
								JUNE						
Calm														5.0
1-3	1-3													24.7
4-6	4-7	1.0	1.9	1.4	1.0	0.7	0.4	2.4	2.8	2.8	2.2	3.9	1.6	22.1
7-10	8-12	1.3	2.1	2.0	1.2	0.9	0.6	2.0	4.5	6.2	3.9	3.7	1.6	30.0
11-16	13-18	0.5	0.4	1.0	1.0	0.3	0.3	0.7	2.6	5.7	1.9	1.2	0.4	16.0
17-21	19-24			0.1	0.1	0+	0.1	0.2	0.3	0.5	0.1	0.1		1.5
22-27	25-31							0+	0.1					0.1
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.8	4.4	4.5	3.3	1.9	1.4	5.3	10.3	15.2	8.1	8.9	3.6	99.4
								Percentage number of hours missed						0.6
								JULY						
Calm														4.4
1-3	1-3													26.6
4-6	4-7	1.3	1.3	1.1	1.1	1.0	0.4	2.0	2.5	2.8	3.3	4.0	1.1	21.9
7-10	8-12	1.5	1.7	1.1	0.5	0.7	0.4	1.9	4.0	7.2	4.1	3.0	1.3	27.4
11-16	13-18	0.4	0.6	0.7	0.1	0+	0.2	0.8	3.0	7.7	2.2	0.9	0.3	16.9
17-21	19-24	0+		0.1			0+	0.2	0.4	1.5	0.2	0+		2.4
22-27	25-31							0+	0.1	0.1	0+			0.2
28-33	32-38								0+	0.1				0.1
34-40	39-46								0+					0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.2	3.6	3.0	1.7	1.7	1.0	4.9	10.0	19.4	9.8	7.9	2.7	99.9
								Percentage number of hours missed						0.1
								AUGUST						
Calm														5.7
1-3	1-3													26.8
4-6	4-7	0.9	1.4	1.1	0.7	1.0	0.7	1.8	2.1	3.3	2.5	3.2	1.5	20.2
7-10	8-12	0.9	0.8	0.6	0.6	1.3	0.8	2.1	4.2	6.7	3.9	2.4	0.9	25.2
11-16	13-18	0.8	0.3	0+	0.1	0.2	0.4	1.2	3.8	6.8	3.2	1.4	0.3	18.5
17-21	19-24		0+				0+	0.4	0.7	1.5	0.3	0.1	0+	3.0
22-27	25-31							0+	0.1	0.1				0.2
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.6	2.5	1.7	1.4	2.5	1.9	5.5	10.9	18.4	9.9	7.1	2.7	99.6
								Percentage number of hours missed						0.4

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

THORNEY ISLAND *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							SEPTEMBER							
Calm														4.8
1-3	1-3													24.7
4-6	4-7	1.4	1.5	2.3	2.5	1.1	0.5	0.9	2.1	1.9	2.5	3.1	1.5	21.3
7-10	8-12	1.2	1.1	2.5	1.9	1.2	0.5	1.4	3.1	5.1	3.7	3.4	0.9	26.0
11-16	13-18	0.4	0.7	0.3	0.3	0.3	0.3	1.4	3.6	5.5	4.0	1.3	0.5	18.6
17-21	19-24	0+	0.1		0+		0+	0.6	0.8	1.2	0.5	0.1		3.3
22-27	25-31							0.1	0.3	0.4				0.8
28-33	32-38							0+	0+	0+				0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.0	3.4	5.1	4.7	2.6	1.3	4.4	9.9	14.1	10.7	7.9	2.9	99.5
Percentage number of hours missed														0.4
							OCTOBER							
Calm														5.3
1-3	1-3													31.7
4-6	4-7	1.5	2.3	1.9	3.0	0.9	0.5	1.1	1.7	2.4	2.4	2.7	1.7	22.1
7-10	8-12	1.1	1.0	0.8	1.5	1.1	0.6	1.0	2.0	3.6	3.1	3.1	1.5	20.4
11-16	13-18	0.9	0.5	0.1	0.6	0.4	0.6	1.3	2.4	5.0	2.1	1.6	1.0	16.5
17-21	19-24	0.2	0.1			0+	0.2	0.3	0.9	0.7	0.2	0.1	0.3	3.0
22-27	25-31	0+	0+				0+	0.2	0.3	0.1	0.1	0.1		0.8
28-33	32-38							0.2	0+	0+				0.2
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.7	3.9	2.8	5.1	2.4	1.9	4.1	7.3	11.8	7.9	7.6	4.5	100.0
Percentage number of hours missed														0
							NOVEMBER							
Calm														6.1
1-3	1-3													27.4
4-6	4-7	2.2	2.1	2.2	1.4	0.7	0.7	0.9	1.3	1.3	1.5	2.4	1.9	18.6
7-10	8-12	2.6	1.9	2.5	1.2	0.9	1.0	1.5	1.7	2.4	2.5	1.9	1.5	21.6
11-16	13-18	1.7	0.7	0.9	0.6	0.3	0.8	2.6	3.2	2.8	3.2	1.5	0.7	19.0
17-21	19-24	0.3	0.1	0+		0.1	0.3	1.6	1.3	0.8	0.3	0.3	0+	5.1
22-27	25-31						0.1	0.6	0.5	0.3	0.1	0.1	0+	1.7
28-33	32-38							0.1	0.1	0.1	0+			0.3
34-40	39-46							0+	0+					0+
41-47	47-54								0+					0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.8	4.8	5.6	3.2	2.0	2.9	7.3	8.1	7.7	7.6	6.2	4.1	99.8
Percentage number of hours missed														0.2

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

THORNEY ISLAND *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
								DECEMBER						
Calm														5.9
1-3	1-3													25.3
4-6	4-7	1.5	1.4	1.6	1.5	0.7	0.8	0.8	1.6	1.9	3.0	2.4	1.0	18.2
7-10	8-12	0.9	1.0	0.8	1.3	0.8	0.8	1.7	2.4	2.9	4.5	2.3	0.9	20.3
11-16	13-18	0.7	0.9	0.8	0.8	0.4	1.0	2.4	3.0	4.0	4.2	1.9	0.5	20.6
17-21	19-24	0+	0+	0.1		0.3	0.3	1.3	1.3	1.6	0.5	0.6	0.1	6.1
22-27	25-31					0+	0.2	0.5	0.6	0.2	0.1	0.2	0+	1.8
28-33	32-38							0.1	0.1	0+		0.1		0.3
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.1	3.3	3.3	3.6	2.2	3.1	6.8	9.0	10.6	12.3	7.5	2.5	98.5
											Percentage number of hours missed			1.5
								YEAR						
Calm														5.1
1-3	1-3													24.8
4-6	4-7	1.4	1.9	1.8	1.7	0.9	0.7	1.4	1.9	2.0	2.1	2.8	1.5	20.1
7-10	8-12	1.6	2.2	2.1	1.5	1.1	0.8	1.8	3.0	4.0	3.2	2.6	1.2	25.1
11-16	13-18	1.1	1.3	1.2	0.7	0.4	0.6	1.6	2.9	4.5	2.8	1.5	0.7	19.3
17-21	19-24	0.2	0.1	0.2	0.1	0+	0.1	0.6	0.8	1.1	0.4	0.3	0.1	4.0
22-27	25-31	0+	0+	0+	0+	0+	0+	0.2	0.3	0.2	0.1	0.1	0+	0.9
28-33	32-38	0+					0+	0.1	0+	0+	0+	0+		0.1
34-40	39-46						0+	0+	0+					0+
41-47	47-54								0+					0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.3	5.5	5.3	4.0	2.4	2.2	5.7	8.9	11.8	8.6	7.3	3.5	99.4
											Percentage number of hours missed			0.5

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SOUTH FARNBOROUGH (51° 17′N, 00° 45′W) 1950-59

Height of vane:	
above MSL	318′
above ground	69′
above building	–
effective height	35′

The anemometer was mounted on the top of a steel lattice mast with some trees surrounding it which were periodically lopped to prevent interference with the exposure. A number of buildings to the north-west of the site produced increased gustiness but the exposure from all other directions was good.

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		JANUARY												
Calm														7.6
1-3	1-3													21.4
4-6	4-7	1.1	1.6	1.6	1.7	1.4	1.7	1.8	2.2	1.9	3.1	2.7	1.6	22.4
7-10	8-12	1.1	2.6	1.7	1.4	0.9	1.6	1.7	3.5	3.3	3.6	2.1	1.1	24.6
11-16	13-18	0.5	0.6	0.6	0.6	0.1	0.6	0.8	2.8	4.4	4.3	2.4	0.6	18.3
17-21	19-24				0+			0.1	0.4	1.7	1.3	0.4	0.2	4.1
22-27	25-31								0+	0.5	0.4	0.1		1.0
28-33	32-38										0+			0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.7	4.8	3.9	3.7	2.4	3.9	4.4	8.9	11.8	12.7	7.7	3.5	99.4
		Percentage number of hours missed												0.6
		FEBRUARY												
Calm														6.9
1-3	1-3													24.4
4-6	4-7	1.3	1.8	2.6	1.6	1.1	1.6	1.8	2.0	1.6	2.2	2.8	1.8	22.2
7-10	8-12	1.7	2.1	2.8	1.3	0.7	1.1	2.1	2.5	3.1	2.9	2.5	1.7	24.5
11-16	13-18	1.0	0.7	0.5	0.2	0.3	0.8	1.4	3.2	3.4	3.2	1.5	0.9	17.1
17-21	19-24	0.1	0.1				0.2	0.2	1.1	1.0	0.7	0.1	0.1	3.6
22-27	25-31						0+	0+	0.3	0.5	0.3			1.1
28-33	32-38									0+	0+			0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.1	4.7	5.9	3.1	2.1	3.7	5.5	9.1	9.6	9.3	6.9	4.5	99.8
		Percentage number of hours missed												0.2

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SOUTH FARNBOROUGH *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°–010°	020°–040°	050°–070°	080°–100°	110°–130°	140°–160°	170°–190°	200°–220°	230°–250°	260°–280°	290°–310°	320°–340°	All directions Total
MARCH														
Calm														7.9
1-3	1-3													25.2
4-6	4-7	1.2	2.4	3.6	4.8	1.9	3.3	1.6	2.0	1.3	1.6	1.5	0.9	26.1
7-10	8-12	0.9	2.4	3.1	2.3	1.5	2.0	2.1	2.8	2.1	2.2	1.1	1.0	23.5
11-16	13-18	0.4	0.5	1.0	0.8	0.6	0.7	1.0	2.3	2.3	2.4	0.8	0.4	13.2
17-21	19-24			0+		0+	0+	0.3	0.8	1.0	0.6	0.1		2.8
22-27	25-31							0+	0.4	0.2	0.1			0.7
28-33	32-38								0.1	0+	0+			0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.5	5.3	7.7	7.9	4.0	6.0	5.0	8.4	6.9	6.9	3.5	2.3	99.5
Percentage number of hours missed														0.5
APRIL														
Calm														8.0
1-3	1-3													26.7
4-6	4-7	1.9	4.1	3.8	1.0	0.6	0.8	0.9	1.7	1.9	2.0	1.6	1.2	21.5
7-10	8-12	1.9	3.4	2.9	1.4	0.2	0.7	1.0	1.9	3.6	3.3	2.1	1.4	23.8
11-16	13-18	0.5	0.9	1.1	0.7	0.1	0.2	0.9	2.3	3.6	3.4	1.4	0.7	15.8
17-21	19-24	0+	0+					0.1	0.6	1.0	0.7	0.2	0.1	2.7
22-27	25-31								0.2	0.1	0.2			0.5
28-33	32-38								0+					0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.3	8.4	7.8	3.1	0.9	1.7	2.9	6.7	10.2	9.6	5.3	3.4	99.0
Percentage number of hours missed														1.0
MAY														
Calm														8.2
1-3	1-3													27.0
4-6	4-7	1.9	2.5	3.3	3.0	1.0	1.5	1.8	2.0	1.4	2.5	1.8	1.3	24.0
7-10	8-12	2.5	2.4	2.4	1.9	0.9	0.9	1.3	3.0	3.0	2.5	2.5	1.6	24.9
11-16	13-18	0.6	0.5	1.5	0.7	0.1	0.3	0.3	2.2	3.8	2.4	1.6	0.3	14.3
17-21	19-24				0+			0.1	0.1	0.6	0.7	0.1	0+	1.6
22-27	25-31							0+		0+				0+
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.0	5.4	7.2	5.6	2.0	2.7	3.5	7.3	8.8	8.1	6.0	3.2	100.0
Percentage number of hours missed														0+

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SOUTH FARNBOROUGH *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
								JUNE						
Calm														9.9
1-3	1-3													34.6
4-6	4-7	1.1	2.0	2.0	1.9	0.6	0.9	0.8	3.0	2.9	2.9	2.9	2.1	23.1
7-10	8-12	0.4	0.6	1.2	1.4	0.2	0.6	0.6	3.1	4.7	4.6	2.8	1.5	21.7
11-16	13-18	0.2	0+	0.3	0.4	0.1	0.1	0.2	1.1	3.7	2.3	0.9	0.6	9.9
17-21	19-24								0+	0.1	0.3	0+	0+	0.4
22-27	25-31										0+			0+
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.7	2.6	3.5	3.7	0.9	1.6	1.6	7.2	11.4	10.1	6.6	4.2	99.6
								Percentage number of hours missed						0.4
								JULY						
Calm														8.2
1-3	1-3													34.0
4-6	4-7	0.9	1.6	1.8	0.8	0.4	0.7	1.0	2.7	3.1	3.2	3.7	1.5	21.4
7-10	8-12	0.4	0.9	0.8	0.5	0.1	0.7	0.7	2.3	5.8	5.0	3.1	1.2	21.5
11-16	13-18	0+	0.1	0.2	0.3		0.1	0.3	1.3	4.6	4.5	1.2	0.1	12.7
17-21	19-24							0+	0+	0.5	0.7	0.1		1.3
22-27	25-31									0.1	0.1	0+		0.2
28-33	32-38									0+				0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.3	2.6	2.8	1.6	0.5	1.5	2.0	6.3	14.1	13.5	8.1	2.8	99.3
								Percentage number of hours missed						0.7
								AUGUST						
Calm														10.1
1-3	1-3													33.8
4-6	4-7	0.9	0.9	1.0	1.0	0.6	1.8	1.6	3.2	4.0	3.3	3.0	1.5	22.8
7-10	8-12	0.7	0.1	0.4	0.3	0.2	0.7	1.2	4.0	6.1	4.8	1.8	0.9	21.2
11-16	13-18	0.2	0.1	0+	0+	0+	0.1	0.1	1.5	4.5	3.7	0.9	0.1	11.2
17-21	19-24									0.1	0.5	0.1		0.7
22-27	25-31									0+	0.1			0.1
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.8	1.1	1.4	1.3	0.8	2.6	2.9	8.7	14.7	12.4	5.8	2.5	99.9
								Percentage number of hours missed						0+

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SOUTH FARNBOROUGH *(contd)*

Mean wind speed		Percentage number of hours with winds from												All directions
knots	m.p.h.	350° 010°	020° 040°	050° 070°	080° 100°	110° 130°	140° 160°	170° 190°	200° 220°	230° 250°	260° 280°	290° 310°	320° 340°	Total
								SEPTEMBER						
Calm														9.4
1-3	1-3													32.6
4-6	4-7	0.6	0.6	2.1	2.2	1.2	1.5	1.7	3.1	2.7	3.1	2.3	0.8	21.9
7-10	8-12	0.5	0.5	1.4	1.6	0.5	0.4	0.8	3.6	4.4	4.0	1.9	0.9	20.5
11-16	13-18	0.1	0.2	0.2	0.2	0.1	0.2	0.7	2.3	3.8	3.9	1.2	0.4	13.3
17-21	19-24								0.2	0.8	0.9	0.1	0+	2.0
22-27	25-31								0.1	0.2	0+	0+		0.3
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.2	1.3	3.7	4.0	1.8	2.1	3.2	9.3	11.9	11.9	5.5	2.1	100.0
										Percentage number of hours missed				0+
								OCTOBER						
Calm														13.0
1-3	1-3													31.8
4-6	4-7	0.9	0.9	1.2	1.2	1.4	1.7	1.6	2.7	2.2	2.5	2.1	1.4	19.8
7-10	8-12	1.1	0.9	0.6	0.4	1.3	1.3	1.7	3.4	4.3	3.2	2.3	1.1	21.6
11-16	13-18	0.4	0.3	0.1		0.2	0.3	0.6	1.9	4.0	2.7	1.2	0.7	12.4
17-21	19-24							0+	0.3	0.5	0.4	0.1	0+	1.3
22-27	25-31									0+	0.1	0+		0.1
28-33	32-38										0+			0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.4	2.1	1.9	1.6	2.9	3.3	3.9	8.3	11.0	8.9	5.7	3.2	100.0
										Percentage number of hours missed				0
								NOVEMBER						
Calm														8.4
1-3	1-3													32.0
4-6	4-7	1.8	1.3	0.9	1.4	1.5	2.6	2.4	2.2	1.9	2.3	2.2	1.8	22.3
7-10	8-12	1.8	0.8	1.3	1.2	1.2	1.8	2.6	2.9	3.0	2.6	1.5	1.2	21.9
11-16	13-18	0.3	0.1	0.3	0.2	0.2	0.9	1.7	2.4	3.3	2.5	1.1	0.5	13.5
17-21	19-24	0+		0+				0.2	0.3	0.6	0.3	0.1	0+	1.5
22-27	25-31							0+	0.2	0.1	0+	0.1	0+	0.4
28-33	32-38								0+	0+				0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.9	2.2	2.5	2.8	2.9	5.3	6.9	8.0	8.9	7.7	5.0	3.5	100.0
										Percentage number of hours missed				0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SOUTH FARNBOROUGH *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		DECEMBER												
Calm														9.3
1-3	1-3													23.3
4-6	4-7	1.1	0.8	0.5	1.8	1.2	2.0	2.7	2.1	2.0	2.8	1.9	0.7	19.6
7-10	8-12	0.7	0.8	1.0	1.1	0.9	1.3	2.0	3.3	3.8	4.7	1.7	0.6	21.9
11-16	13-18	0+	0.6	0.4	0.5	0.4	1.2	1.3	3.0	5.6	4.9	1.9	0.4	20.2
17-21	19-24					0+	.0+	0.1	0.5	1.9	1.1	0.2	0.2	4.0
22-27	25-31							0+	0+	0.4	0.3	0.2	0.1	1.0
28-33	32-38									0+	0+	0+		0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.8	2.2	1.9	3.4	2.5	4.5	6.1	8.9	13.7	13.8	5.9	2.0	99.3
		Percentage number of hours missed												0.7
		YEAR												
Calm														8.9
1-3	1-3													28.8
4-6	4-7	1.2	1.7	2.0	1.9	1.1	1.7	1.7	2.4	2.2	2.6	2.4	1.4	22.3
7-10	8-12	1.2	1.4	1.6	1.2	0.7	1.1	1.5	3.0	3.9	3.6	2.1	1.2	22.5
11-16	13-18	0.3	0.4	0.5	0.4	0.2	0.5	0.8	2.2	3.9	3.4	1.3	0.5	14.4
17-21	19-24	0+	0+	0+	0+	0+	0+	0.1	0.4	0.8	0.7	0.2	0.1	2.3
22-27	25-31						0+	0+	0.1	0.2	0.2	0+	0+	0.5
28-33	32-38								0+	0+	0+	0+		0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.7	3.5	4.1	3.5	2.0	3.3	4.1	8.1	11.0	10.5	6.0	3.2	99.7
		Percentage number of hours missed												0.3

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

ABINGDON (51° 41′N, 01° 19′W) 1950-59

Height of vane:	
above MSL	295′
above ground	40′
above building	–
effective height	40′

The station was in fairly level open country and the exposure of the anemometer may be regarded as excellent.

Mean wind speed knots	m.p.h.	350°–010°	020°–040°	050°–070°	080°–100°	110°–130°	140°–160°	170°–190°	200°–220°	230°–250°	260°–280°	290°–310°	320°–340°	All directions Total
								JANUARY						
Calm														8.2
1-3	1-3													16.1
4-6	4-7	0.8	1.3	1.7	1.0	1.5	1.1	1.2	1.6	2.4	3.0	2.2	1.2	19.0
7-10	8-12	1.4	2.2	2.4	1.3	1.6	1.7	1.4	1.7	2.8	4.3	2.8	1.7	25.3
11-16	13-18	1.7	1.8	1.7	0.6	0.6	1.3	1.8	3.0	2.9	5.1	2.0	1.3	23.8
17-21	19-24	0.3	0.3	0.2	0+	0.1	0.2	0.7	1.0	1.1	1.2	0.6	0.4	6.1
22-27	25-31	0.1	0+	0.1	0+		0+	0.1	0.2	0.2	0.4	0.1	0.2	1.4
28-33	32-38							0+	0.1	0+	0+			0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.3	5.6	6.1	2.9	3.8	4.3	5.2	7.6	9.4	14.0	7.7	4.8	100.0
									Percentage number of hours missed					0
								FEBRUARY						
Calm														7.5
1-3	1-3													15.1
4-6	4-7	0.9	1.8	1.6	1.1	1.0	1.5	1.7	2.0	2.0	2.2	2.3	1.3	19.4
7-10	8-12	2.4	3.3	2.6	1.1	0.6	0.8	1.7	2.0	2.8	3.4	2.7	1.7	25.1
11-16	13-18	1.7	2.1	2.2	0.8	0.5	0.8	1.4	1.7	3.0	3.1	1.3	1.0	19.6
17-21	19-24	0.8	0.4	0.3	0+	0.1	0.3	0.8	1.0	1.2	1.1	0.1	0.3	6.4
22-27	25-31	0.1	0+				0.1	0.5	0.6	0.3	0.3	0+		1.9
28-33	32-38								0+					0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.9	7.6	6.7	3.0	2.2	3.5	6.1	7.3	9.3	10.1	6.4	4.3	95.0
									Percentage number of hours missed					5.0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

ABINGDON *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
								MARCH						
Calm														8.4
1-3	1-3													16.3
4-6	4-7	1.0	1.8	3.0	2.8	1.8	1.3	0.8	0.7	0.9	1.0	1.7	0.9	17.7
7-10	8-12	1.3	2.8	4.3	3.4	2.7	2.2	1.9	2.2	2.1	2.0	1.3	1.4	27.6
11-16	13-18	0.9	1.7	3.5	1.7	2.1	1.9	2.2	2.2	2.7	2.5	0.8	0.8	23.0
17-21	19-24	0.1	0.2	0.6	0.5	0.3	0.5	0.6	0.6	1.1	0.7	0.2	0.1	5.5
22-27	25-31	0+		0.1	0.1		0+	0.1	0.1	0.6	0.4	0+	0+	1.4
28-33	32-38								0+	0+	0.1			0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.3	6.5	11.5	8.5	6.9	5.9	5.6	5.8	7.4	6.7	4.0	3.2	100.0
										Percentage number of hours missed				0
								APRIL						
Calm														7.5
1-3	1-3													16.4
4-6	4-7	1.2	2.4	2.4	1.4	0.8	0.7	0.7	1.0	1.3	1.8	1.7	1.4	16.8
7-10	8-12	2.6	3.0	2.5	1.3	0.6	0.7	0.9	1.7	2.2	2.4	2.0	2.3	22.2
11-16	13-18	2.2	4.5	1.3	0.5	0.1	0.3	1.2	1.7	2.5	2.5	1.3	1.9	20.0
17-21	19-24	0.4	0.8	0.1	0+		0.1	0.3	0.5	1.2	0.7	0.5	0.4	5.0
22-27	25-31	0+	0+					0+		0.1	0.2	0+		0.3
28-33	32-38										0+			0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.4	10.7	6.3	3.2	1.5	1.8	3.1	4.9	7.3	7.6	5.5	6.0	88.2
										Percentage number of hours missed				11.8
								MAY						
Calm														7.2
1-3	1-3													18.4
4-6	4-7	1.6	2.7	3.4	2.6	1.3	0.9	1.1	1.2	1.4	1.6	1.4	1.7	20.9
7-10	8-12	1.3	4.3	4.8	1.9	1.2	1.4	1.7	2.5	2.5	1.7	1.2	1.8	26.3
11-16	13-18	0.9	2.5	1.7	0.6	0.4	0.6	1.1	2.9	2.6	1.3	1.0	1.2	16.8
17-21	19-24	0.2	0.4	0.3	0.1	0+	0+	0.4	0.9	0.7	0.3	0.1	0+	3.4
22-27	25-31	0+	0+	0+					0.1	0.1	0+			0.2
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.0	9.9	10.2	5.2	2.9	2.9	4.3	7.6	7.3	4.9	3.7	4.7	93.2
										Percentage number of hours missed				6.8

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

ABINGDON *(contd)*

Mean wind speed knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							JUNE							
Calm														9.6
1-3	1-3													23.7
4-6	4-7	1.1	2.2	2.4	1.5	0.6	0.6	1.0	2.0	2.3	3.7	2.8	2.4	22.6
7-10	8-12	1.3	2.3	2.4	1.5	0.3	0.5	1.0	3.0	4.0	4.7	3.0	1.9	25.9
11-16	13-18	0.6	1.0	1.3	0.7	0.4	0.3	0.8	2.2	2.8	3.3	1.6	1.2	16.2
17-21	19-24	0+	0+	0+		0.1	0.1	0.1	0.5	0.6	0.2	0.1	0.1	1.8
22-27	25-31								0+	0.1	0+			0.1
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.0	5.5	6.1	3.7	1.4	1.5	2.9	7.7	9.8	11.9	7.5	5.6	99.9
						Percentage number of hours missed								0
							JULY							
Calm														9.6
1-3	1-3													24.6
4-6	4-7	1.4	2.6	2.3	0.6	0.4	0.7	1.5	1.7	2.6	4.0	3.1	1.6	22.5
7-10	8-12	0.9	2.1	2.0	0.3	0.2	0.6	1.5	3.1	4.2	5.2	2.8	1.5	24.4
11-16	13-18	0.2	0.4	0.5	0.2	0.1	0.3	1.0	1.9	3.1	4.5	1.7	0.7	14.6
17-21	19-24	0.1	0+				0+	0.1	0.5	1.2	1.0	0+	0+	2.9
22-27	25-31						0+		0+	0.2	0.2			0.4
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.6	5.1	4.8	1.1	0.7	1.6	4.1	7.2	11.3	14.9	7.6	3.8	99.0
						Percentage number of hours missed								1.0
							AUGUST							
Calm														12.1
1-3	1-3													25.9
4-6	4-7	0.9	1.7	1.7	0.7	0.9	1.3	1.3	2.0	3.2	3.5	2.0	1.3	20.5
7-10	8-12	0.5	1.5	1.1	0.5	0.5	0.8	1.5	3.2	4.7	4.3	1.7	1.5	21.8
11-16	13-18	0.5	0.8	0.4	0.2	0.3	0.4	1.1	2.8	4.3	4.5	0.7	0.5	16.5
17-21	19-24					0+	0.1	0.2	0.5	0.6	0.9	0.1	0+	2.4
22-27	25-31							0+	0.1	0.1	0.1			0.3
28-33	32-38									0+	0+			0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.9	4.0	3.2	1.4	1.7	2.6	4.1	8.6	12.9	13.3	4.5	3.3	99.5
						Percentage number of hours missed								0.4

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

ABINGDON *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
								SEPTEMBER						
Calm														12.0
1-3	1-3													22.0
4-6	4-7	0.6	2.3	2.1	1.1	1.1	1.0	1.2	1.8	2.6	2.9	2.3	1.0	20.0
7-10	8-12	0.8	2.2	2.8	0.9	1.0	1.2	1.3	2.6	4.1	3.9	2.3	0.9	24.0
11-16	13-18	0.3	0.5	0.7	0.4	0.3	0.6	1.8	2.9	3.6	1.5	0.8		17.0
17-21	19-24		0.2	0+	0.1	0+	0.1	0.5	0.9	1.2	1.3	0.1		4.4
22-27	25-31							0.1	0.1	0.2	0.2	0+		0.6
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.7	5.2	5.6	2.5	2.4	2.9	4.9	8.3	11.7	11.9	6.2	2.7	100.0
								Percentage number of hours missed						0
								OCTOBER						
Calm														14.8
1-3	1-3													25.3
4-6	4-7	1.0	1.3	1.5	1.4	1.5	1.5	0.7	1.6	2.2	2.7	2.0	1.5	18.9
7-10	8-12	0.9	0.7	0.7	0.4	1.2	1.7	1.3	2.7	3.9	3.5	2.2	1.8	21.0
11-16	13-18	1.1	0.5	0+	0+	0.6	0.8	0.9	3.2	4.0	2.9	1.2	1.3	16.5
17-21	19-24	0.3	0+			0.1	0.2	0.4	0.6	0.5	0.5	0.2	0.1	2.9
22-27	25-31						0.1	0.1	0.1	0+	0.1	0.1		0.5
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.3	2.5	2.2	1.8	3.4	4.3	3.4	8.2	10.6	9.7	5.7	4.7	99.9
								Percentage number of hours missed						0+
								NOVEMBER						
Calm														12.3
1-3	1-3													20.4
4-6	4-7	1.3	1.5	1.4	1.3	1.3	1.7	1.4	1.2	1.7	2.2	2.5	1.8	19.3
7-10	8-12	2.4	1.9	2.1	0.9	1.4	2.0	1.9	1.5	2.6	2.5	2.3	2.2	23.7
11-16	13-18	1.9	0.9	1.4	0.8	1.4	2.1	2.0	2.1	2.2	2.0	1.2	1.5	19.5
17-21	19-24	0+	0.1	0.2	0+	0.1	0.5	0.7	0.5	0.6	0.7	0.3	0.1	3.8
22-27	25-31	0+		0+		0+	0.1	0.3	0.2	0.1	0.1	0.1	0+	0.9
28-33	32-38							0+	0+	0.1			0+	0.1
34-40	39-46								0+					0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.6	4.4	5.1	3.0	4.2	6.4	6.3	5.5	7.3	7.5	6.4	5.6	100.0
								Percentage number of hours missed						0+

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

ABINGDON *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
								DECEMBER						
Calm														10.1
1-3	1-3													19.1
4-6	4-7	0.4	0.9	1.4	1.1	1.8	1.4	1.9	1.9	2.4	1.8	2.5	1.2	18.7
7-10	8-12	1.3	1.2	2.1	0.9	1.3	1.7	1.6	2.5	3.5	3.6	2.0	1.2	22.9
11-16	13-18	0.7	0.4	0.9	0.6	1.1	1.1	1.5	3.5	4.0	3.9	1.1	0.8	19.6
17-21	19-24	0+	0.4	0+	0.1	0.8	0.3	0.7	1.6	1.8	1.3	0.2	0.1	7.3
22-27	25-31		0+			0.2	0.1	0.1	0.5	0.6	0.3	0.3	0+	2.1
28-33	32-38									0+	0.1			0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.4	2.9	4.4	2.7	5.2	4.6	5.8	10.0	12.3	11.0	6.1	3.3	99.9
											Percentage number of hours missed			0
								YEAR						
Calm														10.0
1-3	1-3													20.3
4-6	4-7	1.0	1.9	2.1	1.4	1.2	1.1	1.2	1.5	2.1	2.5	2.3	1.4	19.7
7-10	8-12	1.4	2.3	2.5	1.2	1.1	1.3	1.5	2.4	3,3	3.4	2.2	1.6	24.2
11-16	13-18	1.0	1.4	1.3	0.6	0.6	0.9	1.4	2.5	3.2	3.3	1.3	1.1	18.6
17-21	19-24	0.2	0.2	0.2	0.1	0.1	0.2	0.5	0.7	1.0	0.8	0.2	0.1	4.3
22-27	25-31	0+	0+	0+	0+	0+	0+	0.1	0.2	0.2	0.2	0.1	0+	0.8
28-33	32-38							0+	0+	0+	0+		0+	0+
34-40	39-46								0+					0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.6	5.8	6.1	3.3	3.0	3.5	4.7	7.3	9.8	10.2	6.1	4.2	97.9
											Percentage number of hours missed			2.0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

BOSCOMBE DOWN (51° 10′N, 01° 45′W) 1950-56, 1959

Height of vane:	1950	1951-59
above MSL	462′	425′
above ground	45′	55′
above building	—	48′
effective height	33′	55′

The surrounding country was undulating, mainly agricultural. The head was well exposed except for the effect of eddies caused by buildings between east-north-east and east-south-east and, to a lesser extent, by building between south-south-west and south-west

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		JANUARY												
Calm														3.5
1-3	1-3													18.7
4-6	4-7	1.8	1.0	1.1	1.0	0.9	0.8	1.0	2.0	1.5	2.0	1.8	1.9	16.8
7-10	8-12	1.7	2.3	2.3	1.8	2.0	0.9	1.4	2.6	2.2	3.0	2.8	1.7	24.7
11-16	13-18	1.1	2.3	2.4	2.2	1.9	1.0	1.9	2.5	2.0	3.8	3.5	1.4	26.0
17-21	19-24	0.4	0.4	0.2	0.3	0.1	0.3	0.9	0.7	0.8	1.0	1.0	0.7	6.8
22-27	25-31	0.3		0+	0.2		0.1	0.3	0.5	0.3	0.4	0.5	0.3	2.9
28-33	32-38							0+	0.1		0+	0.3	0.2	0.6
34-40	39-46								0+					0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.3	6.0	6.0	5.5	4.9	3.1	5.5	8.4	6.8	10.2	9.9	6.2	100.0
		Percentage number of hours missed												0+
		FEBRUARY												
Calm														4.6
1-3	1-3													14.8
4-6	4-7	1.6	1.2	1.2	1.5	0.9	1.0	1.4	1.2	0.7	1.1	1.2	1.5	14.5
7-10	8-12	2.7	2.1	3.5	2.1	1.3	1.5	2.6	2.3	2.5	2.9	2.1	2.1	27.7
11-16	13-18	2.3	2.8	4.1	1.6	0.7	1.5	1.8	2.6	2.7	3.0	2.0	1.7	26.8
17-21	19-24	0.8	0.5	1.0	0.4	0.1	0.3	0.7	1.2	0.9	1.0	0.6	0.2	7.7
22-27	25-31	0.1	0.1	0.2		0.1	0.2	0.2	0.5	0.2	0.1	0.3	0.2	2.2
28-33	32-38					0.1	0.1	0.2	0.1	0+		0+		0.5
34-40	39-46						0.1	0.1						0.2
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		7.5	6.7	10.0	5.6	3.2	4.7	7.0	7.9	7.0	8.1	6.2	5.7	99.0
		Percentage number of hours missed												1.0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

BOSCOMBE DOWN *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
		MARCH												
Calm														2.9
1-3	1-3													15.1
4-6	4-7	1.5	1.4	1.7	1.9	1.1	1.2	1.1	0.7	0.6	1.0	1.4	1.2	14.8
7-10	8-12	1.4	1.8	3.1	3.5	2.0	2.3	2.1	2.3	2.0	1.6	1.5	1.0	24.6
11-16	13-18	1.2	2.6	3.0	3.3	3.3	2.4	3.0	2.9	2.3	2.2	1.6	0.9	28.7
17-21	19-24	0.3	0.4	1.1	0.6	0.8	0.9	1.3	1.2	1.1	0.4	0.5	0.2	8.8
22-27	25-31	0.1		0.3	0.6	0.2	0.4	0.8	0.5	0.7	0.3	0.3	0.1	4.3
28-33	32-38				0+			0.1	0.1	0.1		0.2		0.5
34-40	39-46							0+				0.1		0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.5	6.2	9.2	9.9	7.4	7.2	8.4	7.7	6.8	5.5	5.6	3.4	99.8
													Percentage number of hours missed	0.2
		APRIL												
Calm														2.4
1-3	1-3													14.0
4-6	4-7	1.9	1.7	1.3	1.3	1.0	0.9	1.0	1.6	1.4	1.9	2.0	1.9	17.9
7-10	8-12	2.3	2.7	2.9	3.1	1.2	0.7	1.6	2.7	2.1	2.9	2.3	1.7	26.2
11-16	13-18	1.8	2.0	3.4	2.5	0.8	0.7	1.3	3.3	3.2	3.4	3.5	2.6	28.5
17-21	19-24	0.6	0.4	0.5	0.6	0+	0.2	0.9	1.1	1.4	0.9	1.1	0.8	8.5
22-27	25-31	0.1	0+		0.1			0.2	0.6	0.6	0.2	0.1	0.2	2.1
28-33	32-38							0.1	0+	0+		0+	0+	0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.7	6.8	8.1	7.6	3.0	2.5	5.1	9.3	8.7	9.3	9.0	7.2	99.7
													Percentage number of hours missed	0.3
		MAY												
Calm														1.6
1-3	1-3													13.9
4-6	4-7	2.2	2.1	2.2	1.8	1.5	1.1	1.5	1.3	0.9	1.6	1.5	2.1	19.8
7-10	8-12	2.2	4.5	3.1	2.3	1.9	1.5	1.8	2.3	1.4	2.2	2.4	2.0	27.6
11-16	13-18	2.2	4.7	3.2	1.4	1.4	1.0	1.2	2.6	2.6	1.9	2.9	2.7	27.8
17-21	19-24	0.5	0.5	0.5	0.2	0.1	0.2	0.1	1.2	1.4	0.5	0.9	0.7	6.8
22-27	25-31	0.1		0.1	0.1	0+	0+	0+	0.4	0.7	0.3	0.3	0.3	2.3
28-33	32-38	0+							0+	0+	0+	0.1	0.1	0.2
34-40	39-46	0+												0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		7.2	11.8	9.1	5.8	4.9	3.8	4.6	7.8	7.0	6.5	8.1	7.9	100.0
													Percentage number of hours missed	0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

BOSCOMBE DOWN *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							JUNE							
Calm														3.7
1-3	1-3													18.2
4-6	4-7	1.5	1.3	1.7	1.1	0.8	0.6	1.5	2.0	2.6	2.8	2.9	2.6	21.4
7-10	8-12	2.3	1.5	2.5	1.2	0.5	0.8	1.7	3.0	3.0	3.8	3.7	3.2	27.2
11-16	13-18	1.2	1.4	2.4	1.4	0.7	0.5	1.0	3.2	3.7	3.3	3.4	2.2	24.4
17-21	19-24	0.5	0.3	0.1	0.1	0.1	0+	0.2	0.8	0.7	0.4	0.5	0.3	4.0
22-27	25-31	0.1				0+	0+	0+	0.3	0.2	0.1	0.1	0.1	0.9
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.6	4.5	6.7	3.8	2.1	1.9	4.4	9.3	10.2	10.4	10.6	8.4	99.8
									Percentage number of hours missed					0.1
							JULY							
Calm														2.8
1-3	1-3													20.0
4-6	4-7	1.1	1.9	1.9	1.2	0.8	0.7	1.5	1.8	2.1	2.9	3.6	1.9	21.4
7-10	8-12	1.4	2.2	2.5	1.2	0.5	0.7	1.4	2.9	3.3	4.2	4.4	2.2	26.9
11-16	13-18	0.8	1.2	1.8	0.5	0.3	0.5	1.2	2.7	3.3	4.4	4.3	2.2	23.2
17-21	19-24	0.1	0.1	0+	0.3		0.1	0.3	1.0	0.9	0.6	0.8	0.3	4.5
22-27	25-31	0+			0+			0+	0.3	0.3	0.1	0.3	0+	1.0
28-33	32-38							0+	0.1		0+			0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.4	5.4	6.2	3.2	1.6	2.0	4.4	8.8	9.9	12.2	13.4	6.6	99.9
									Percentage number of hours missed					0+
							AUGUST							
Calm														3.7
1-3	1-3													20.8
4-6	4-7	1.6	1.0	1.4	1.1	0.9	1.2	1.8	2.9	2.2	2.3	2.1	1.9	20.4
7-10	8-12	1.8	1.3	1.2	1.1	1.7	1.8	2.6	3.3	3.1	4.6	3.4	1.7	27.6
11-16	13-18	0.8	1.1	1.2	0.6	1.1	1.9	2.7	2.3	3.6	3.5	3.1	0.9	22.8
17-21	19-24	0.1	0.1	0.1	0+	0+	0.1	0.6	0.6	1.2	0.4	0.6	0.3	4.1
22-27	25-31							0+	0.1	0.1		0.1	0.1	0.4
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.3	3.5	3.9	2.8	3.7	5.0	7.7	9.2	10.2	10.8	9.3	4.9	99.8
									Percentage number of hours missed					0.1

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

BOSCOMBE DOWN *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		SEPTEMBER												
Calm														3.0
1-3	1-3													20.0
4-6	4-7	1.0	1.2	2.0	1.5	1.4	1.6	1.8	2.8	2.3	2.2	1.8	1.2	20.8
7-10	8-12	0.9	1.2	3.1	2.7	1.6	1.5	2.0	3.2	3.6	4.1	3.0	1.8	28.7
11-16	13-18	0.6	0.6	2.4	1.2	0.6	1.0	1.5	3.2	3.1	2.8	2.9	1.5	21.4
17-21	19-24	0.1	0.1	0.1	0.1	0.1	0.3	0.7	0.9	0.7	0.7	0.5	0.2	4.5
22-27	25-31	0+	0+	0+			0.1	0.2	0.2	0.4	0.2	0+		1.1
28-33	32-38									0+				0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.6	3.1	7.6	5.5	3.7	4.5	6.2	10.3	10.1	10.0	8.2	4.7	99.5
		Percentage number of hours missed												0.5
		OCTOBER												
Calm														4.5
1-3	1-3													23.1
4-6	4-7	1.5	1.2	1.7	2.6	1.9	1.1	1.9	2.2	2.6	2.1	1.9	2.1	22.8
7-10	8-12	1.6	1.5	1.7	3.5	1.7	1.2	1.2	2.9	4.0	3.4	2.6	1.6	26.9
11-16	13-18	1.1	1.4	0.4	0.9	1.1	0.7	1.0	2.2	3.4	1.9	2.3	1.6	18.0
17-21	19-24	0.5	0.2			0.2	0.2	0.2	0.7	0.7	0.2	0.3	0.3	3.5
22-27	25-31	0+				0+	0.1	0.1	0.3	0.2	0.1	0.1	0.1	1.0
28-33	32-38						0+		0+	0+	0+	0+	0.1	0.1
34-40	39-46											0+	0+	0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.7	4.3	3.8	7.0	4.9	3.3	4.4	8.3	10.9	7.7	7.2	5.8	99.9
		Percentage number of hours missed												0.1
		NOVEMBER												
Calm														3.0
1-3	1-3													21.4
4-6	4-7	2.4	1.0	1.1	1.5	0.9	1.4	2.5	2.5	2.6	1.9	1.5	1.9	21.2
7-10	8-12	1.8	1.4	1.3	1.8	1.2	1.3	3.0	2.1	2.5	3.6	2.2	1.6	23.8
11-16	13-18	1.2	0.6	1.4	1.1	1.5	1.3	2.5	2.2	2.5	2.9	2.3	1.7	21.2
17-21	19-24	0.1	0.1	0.1	0.2	0.3	0.5	1.0	1.1	0.8	0.8	1.1	0.2	6.3
22-27	25-31	0+	0+	0+	0+	0.2	0.2	0.2	0.5	0.4	0.3	0.2	0.1	2.1
28-33	32-38								0.1	0.1		0+	0.1	0.3
34-40	39-46								0+			0+		0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.5	3.1	3.9	4.6	4.1	4.7	9.2	8.5	8.9	9.5	7.3	5.6	99.3
		Percentage number of hours missed												0.7

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

BOSCOMBE DOWN *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							DECEMBER							
Calm														2.6
1-3	1-3													18.8
4-6	4-7	1.1	0.8	0.4	0.7	1.0	1.0	2.6	2.3	2.2	2.0	2.4	1.6	18.1
7-10	8-12	1.4	0.7	0.5	1.2	1.8	1.4	2.1	3.4	3.4	4.9	3.4	1.5	25.7
11-16	13-18	0.5	1.0	0.7	1.3	2.2	1.2	1.6	2.3	3.5	3.3	4.1	1.4	23.1
17-21	19-24	0.2	0.1	0.1	0.4	0.1	0.8	0.5	0.9	2.1	0.8	1.4	0.4	7.8
22-27	25-31	0+	0+	0+	0.2	0.3	0.4	0.2	0.3	0.7	0.2	0.5	0.3	3.1
28-33	32-38								0.1	0.1		0.1	0.1	0.4
34-40	39-46											0.1	0+	0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.2	2.6	1.7	3.8	5.4	4.8	7.0	9.3	12.0	11.2	12.0	5.3	99.7
Percentage number of hours missed														0.3
							YEAR							
Calm														3.2
1-3	1-3													18.3
4-6	4-7	1.6	1.3	1.5	1.4	1.1	1.1	1.7	1.9	1.8	2.0	2.0	1.8	19.2
7-10	8-12	1.8	1.9	2.3	2.1	1.4	1.3	2.0	2.8	2.8	3.4	2.8	1.8	26.4
11-16	13-18	1.2	1.8	2.2	1.5	1.3	1.1	1.8	2.7	3.0	3.0	3.0	1.7	24.3
17-21	19-24	0.3	0.3	0.3	0.3	0.2	0.3	0.6	0.9	1.1	0.6	0.8	0.4	6.1
22-27	25-31	0.1	0+	0.1	0.1	0.1	0.1	0.2	0.4	0.4	0.2	0.2	0.1	2.0
28-33	32-38	0+			0+	0+	0+	0+	0.1	0+	0+	0.1	0+	0.2
34-40	39-46	0+					0+	0+	0+			0+	0+	0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.0	5.3	6.4	5.4	4.1	3.9	6.3	8.8	9.1	9.2	8.9	5.8	99.7
Percentage number of hours missed														0.3

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SELLAFIELD (54° 25′N, 03° 30′W) 1950-52, 1954-56, 1958-59

Height of vane:	
above MSL	83′
above ground	39′
above building	30′
effective height	35′

The instrument was in a slight hollow, the anemometer head being only a few feet above the ground level within 100 yd to the south and west. This caused some sheltering.

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							JANUARY							
Calm														6.4
1-3	1-3													12.7
4-6	4-7	2.1	1.7	1.4	2.4	2.8	1.3	0.6	0.6	0.4	0.6	0.7	1.9	16.5
7-10	8-12	2.4	0.9	0.8	2.2	4.1	2.9	1.8	1.0	1.4	1.1	1.7	1.8	22.1
11-16	13-18	1.5	0.3	0.8	2.0	3.3	3.8	1.5	1.1	1.8	3.0	2.6	2.1	23.8
17-21	19-24	0.5	0.1	0.1	1.0	2.0	1.3	0.8	0.5	0.9	2.0	1.6	1.1	11.9
22-27	25-31			0+	0.5	0.6	0.6	0.2	0.5	0.5	1.5	0.6	0.3	5.3
28-33	32-38					0+	0.1	0+	0.2	0.1	0+	0+	0.1	0.5
34-40	39-46										0.1	0+		0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.5	3.0	3.1	8.1	12.8	10.0	4.9	3.9	5.1	8.3	7.2	7.3	99.3
									Percentage number of hours missed					0.7
							FEBRUARY							
Calm														9.2
1-3	1-3													14.6
4-6	4-7	2.4	1.6	1.5	1.9	2.0	1.3	0.9	0.6	0.7	0.6	1.5	2.2	17.2
7-10	8-12	3.9	1.7	1.1	2.4	3.3	3.2	1.5	0.9	1.6	1.2	1.9	2.1	24.8
11-16	13-18	1.5	0.8	0.4	1.8	2.5	2.4	1.8	1.8	1.8	2.5	2.3	1.4	21.0
17-21	19-24	0.2	0.2	0.2	0.7	1.4	1.3	0.8	0.9	0.8	1.1	0.4	0.1	8.1
22-27	25-31				0.3	0.4	0.4	0.1	0.4	0.4	0.4	0.1	0+	2.5
28-33	32-38					0.1	0.1	0+				0+		0.2
34-40	39-46						0+							0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		8.0	4.3	3.2	7.1	9.7	8.7	5.1	4.6	5.3	5.8	6.2	5.8	97.6
									Percentage number of hours missed					2.4

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SELLAFIELD *(contd)*

Mean wind speed knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							MARCH							
Calm														7.8
1-3	1-3													12.3
4-6	4-7	1.5	1.3	1.2	2.9	3.0	1.9	0.9	0.8	0.6	1.1	1.6	1.4	18.2
7-10	8-12	1.7	1.0	1.1	3.9	3.6	3.1	1.5	1.4	1.0	1.8	2.2	1.4	23.7
11-16	13-18	0.9	0.9	0.8	2.5	5.7	4.9	1.4	1.3	0.7	1.1	1.6	1.1	22.9
17-21	19-24	0.1	0.2	0.1	0.9	2.3	2.0	0.8	0.6	0.5	0.4	0.3	0.3	8.5
22-27	25-31		0+		0.5	0.3	0.4	0.1	0.1	0.1	0+	0+	0.1	1.6
28-33	32-38					0+		0+						0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.2	3.4	3.2	10.7	14.9	12.3	4.7	4.2	2.9	4.4	5.7	4.3	95.0
									Percentage number of hours missed					4.9
							APRIL							
Calm														7.9
1-3	1-3													14.8
4-6	4-7	1.4	1.2	0.7	2.9	2.2	1.9	1.7	1.2	1.8	1.7	1.9	1.7	20.3
7-10	8-12	2.2	1.1	0.3	1.8	1.8	3.5	3.0	2.1	1.3	3.2	2.9	1.9	25.1
11-16	13-18	1.0	0.5	0.2	0.7	1.0	3.2	2.6	2.3	1.2	3.4	3.7	1.2	21.0
17-21	19-24	0.2	0+	0.1	0.1	0.6	0.7	0.2	0.6	0.5	1.0	1.2	0.4	5.6
22-27	25-31	0+		0.2		0+	0+	0+	0.4	0.6	0.5	0.3	0+	2.0
28-33	32-38								0.1		0+			0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.8	2.8	1.5	5.5	5.6	9.3	7.5	6.7	5.4	9.8	10.0	5.2	96.8
									Percentage number of hours missed					3.2
							MAY							
Calm														10.3
1-3	1-3													14.8
4-6	4-7	1.2	1.3	1.4	2.4	1.4	1.6	1.2	1.3	1.5	1.7	1.7	1.9	18.6
7-10	8-12	1.8	1.0	1.0	2.6	1.9	1.9	2.3	2.3	1.3	1.9	3.1	3.2	24.3
11-16	13-18	1.4	0.6	0.7	1.6	2.1	2.8	2.3	2.0	1.4	2.1	2.9	2.6	22.5
17-21	19-24	0.4	0.2	0.3	0.4	0.8	0.9	1.1	0.7	0.3	0.4	1.0	0.5	7.0
22-27	25-31			0.1	0.1	0.1	0.2	0.2	0.2	0+		0.2		1.1
28-33	32-38		0+	0+							0.2	0+		0.2
34-40	39-46		0+											0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.8	3.1	3.5	7.1	6.3	7.4	7.1	6.5	4.5	6.3	8.9	8.2	98.8
									Percentage number of hours missed					1.2

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SELLAFIELD *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							JUNE							
Calm														7.4
1-3	1-3													13.7
4-6	4-7	0.9	1.0	0.6	2.0	1.4	1.2	1.9	1.6	1.5	2.3	2.0	2.0	18.4
7-10	8-12	1.1	0.8	0.4	1.8	2.3	1.8	2.3	2.5	2.3	2.3	3.9	2.2	23.7
11-16	13-18	0.7	0.2		1.4	2.0	1.5	3.5	3.1	2.0	2.8	5.8	2.7	25.7
17-21	19-24	0+			0.4	0.3	0.5	1.2	1.8	1.3	0.5	1.5	0.6	8.1
22-27	25-31				0+	0+	0+	0.6	0.8	0.2	0.2	0+	0+	1.8
28-33	32-38							0.1	0+					0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.7	2.0	1.0	5.6	6.0	5.0	9.6	9.8	7.3	8.1	13.2	7.5	98.9
Percentage number of hours missed														1.1
							JULY							
Calm														8.2
1-3	1-3													13.0
4-6	4-7	1.2	0.8	0.8	2.2	1.6	1.3	1.9	1.7	1.8	2.5	2.5	2.1	20.4
7-10	8-12	1.3	0.6	0.3	1.0	1.6	1.4	2.5	2.7	2.2	3.6	5.0	2.5	24.7
11-16	13-18	0.6	0.2	0+	0.1	0.4	2.1	2.5	4.5	4.1	3.8	5.1	2.1	25.5
17-21	19-24	0.1			0+	0+	0.2	0.5	0.9	1.2	0.6	1.4	0.3	5.2
22-27	25-31						0+	0.1	0.4	0.2	0.1	0.4	0+	1.2
28-33	32-38								0.1	0+	0+	0.3		0.4
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.2	1.6	1.1	3.3	3.6	5.0	7.5	10.3	9.5	10.6	14.7	7.0	98.6
Percentage number of hours missed														1.4
							AUGUST							
Calm														6.0
1-3	1-3													11.6
4-6	4-7	1.3	1.0	0.7	2.9	2.4	1.4	1.3	1.9	1.7	1.6	1.5	1.9	19.6
7-10	8-12	1.6	0.8	0.3	2.3	2.1	1.8	2.7	3.4	2.4	2.9	3.7	2.3	26.3
11-16	13-18	0.3	0.5	0.1	0.6	1.2	2.1	2.8	4.7	3.4	2.5	3.6	2.6	24.4
17-21	19-24		0.1	0+	0.1	0.3	0.4	1.0	1.7	1.7	0.5	0.4	0.3	6.5
22-27	25-31							0.2	0.5	0.5	0.3	0.4	0+	1.9
28-33	32-38							0.1						0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.2	2.4	1.1	5.9	6.0	5.7	8.1	12.2	9.7	7.8	9.6	7.1	96.4
Percentage number of hours missed														3.6

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SELLAFIELD *(contd)*

Mean wind speed		Percentage number of hours with winds from												All directions
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	Total
		SEPTEMBER												
Calm														5.8
1-3	1-3													9.2
4-6	4-7	1.2	1.6	1.0	2.6	2.2	1.0	0.8	0.7	0.4	0.7	0.9	0.8	13.9
7-10	8-12	1.2	1.5	1.0	1.9	3.5	1.9	1.9	1.5	1.6	1.5	1.9	1.2	20.6
11-16	13-18	0.6	0.6	0.5	1.0	3.2	2.8	3.1	4.0	3.3	3.8	3.4	1.7	28.0
17-21	19-24	0.1	0.1		0.2	0.8	1.0	1.4	2.6	2.1	1.7	1.7	0.7	12.4
22-27	25-31					0+	0.4	0.4	1.0	1.5	1.3	0.5	0.1	5.2
28-33	32-38						0.1	0.2	0.2	0.3	0.4	0+		1.2
34-40	39-46								0.1	0.1	0.1			0.3
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.1	3.8	2.5	5.7	9.7	7.2	7.8	10.1	9.3	9.5	8.4	4.5	96.6
		Percentage number of hours missed												3.4
		OCTOBER												
Calm														4.9
1-3	1-3													9.0
4-6	4-7	0.9	1.1	1.4	2.6	2.0	1.0	0.5	0.4	0.4	0.7	1.4	1.8	14.2
7-10	8-12	1.2	0.7	0.6	2.0	3.1	3.0	1.3	1.3	1.5	1.4	2.1	1.9	20.1
11-16	13-18	0.8	0.4	0.2	1.7	4.5	3.5	2.6	3.5	3.6	4.1	2.8	2.1	29.8
17-21	19-24	0.3	0+		0.2	1.7	0.9	1.7	2.5	2.3	3.2	1.6	0.6	15.0
22-27	25-31				0.1	0.8	0.4	0.4	0.9	0.4	0.9	0.8	0.1	4.8
28-33	32-38			0+	0+	0.1	0+	0+	0.2	0.1	0.1	0+		0.5
34-40	39-46							0+			0.1	0+		0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.2	2.2	2.2	6.6	12.2	8.8	6.5	8.8	8.3	10.5	8.7	6.5	98.4
		Percentage number of hours missed												1.6
		NOVEMBER												
Calm														6.1
1-3	1-3													13.8
4-6	4-7	2.3	2.8	1.5	1.8	3.0	0.9	0.3	0.2	0.1	0.4	1.2	2.4	16.9
7-10	8-12	2.7	1.8	1.0	1.8	3.0	2.2	0.6	0.7	0.8	0.8	1.4	2.2	19.0
11-16	13-18	1.6	1.0	0.7	1.4	3.5	3.2	2.0	1.3	1.8	2.0	3.1	2.4	24.0
17-21	19-24	0.2	0.2	0.3	0.5	1.2	1.6	1.0	0.6	1.1	1.9	1.2	0.5	10.3
22-27	25-31			0.1	0.3	0.7	0.7	0.4	0.4	0.4	0.7	0.8	0.2	4.7
28-33	32-38			0.1	0.1	0.1	0.2		0+	0.1	0.2	0.1		0.9
34-40	39-46					0+	0.1	0.1	0+			0+		0.2
41-47	47-54						0+							0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.8	5.8	3.7	5.9	11.5	8.9	4.4	3.2	4.3	6.0	7.8	7.7	95.9
		Percentage number of hours missed												4.1

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SELLAFIELD *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
		DECEMBER												
Calm														5.0
1-3	1-3													9.4
4-6	4-7	1.8	1.8	1.3	2.6	2.8	1.2	0.3	0.2	0.3	0.3	0.5	1.1	14.2
7-10	8-12	2.2	0.8	0.4	1.8	3.2	2.1	1.8	1.6	1.2	1.2	1.5	1.4	19.2
11-16	13-18	0.6	0.3	0.1	0.8	3.5	3.4	2.8	3.0	4.2	4.0	2.9	1.2	26.8
17-21	19-24	0.1		0.1	0.4	2.0	2.0	1.3	1.7	2.1	2.4	1.1	0.3	13.5
22-27	25-31	0.1		0+	0.4	0.8	0.5	0.7	1.0	1.3	1.4	1.0	0.2	7.4
28-33	32-38					0.1	0.1	0.1	0.3	0.2	0.2	0.5	0+	1.5
34-40	39-46								0.1	0+	0+	0.1	0+	0.2
41-47	47-54											0.1	0+	0.1
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.8	2.9	1.9	6.0	12.4	9.3	7.0	7.9	9.3	9.5	7.7	4.2	97.3
													Percentage number of hours missed	2.7
		YEAR												
Calm														7.1
1-3	1-3													12.4
4-6	4-7	1.5	1.4	1.1	2.4	2.2	1.3	1.0	1.0	1.0	1.2	1.5	1.8	17.4
7-10	8-12	1.9	1.1	0.7	2.1	2.8	2.4	1.9	1.8	1.6	1.9	2.6	2.0	22.8
11-16	13-18	1.0	0.5	0.4	1.3	2.8	3.0	2.4	2.7	2.4	2.9	3.3	1.9	24.6
17-21	19-24	0.2	0.1	0.1	0.4	1.1	1.1	1.0	1.2	1.2	1.3	1.1	0.5	9.3
22-27	25-31	0+	0+	0+	0.2	0.3	0.3	0.3	0.6	0.5	0.6	0.4	0.1	3.3
28-33	32-38		0+	0+	0+	0+	0.1	0+	0.1	0.1	0.1	0.1	0+	0.5
34-40	39-46	0+	0+			0+	0+	0+	0+	0+	0+	0+	0+	0+
41-47	47-54						0+					0+	0+	0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.6	3.1	2.3	6.4	9.2	8.2	6.6	7.4	6.8	8.0	9.0	6.3	97.4
													Percentage number of hours missed	2.5

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

FLEETWOOD (53° 56′N, 03° 01′W) 1950-57

Height of vane:	
above MSL	112′
above ground	50′
above building	12′
effective height	31′

The anemograph was mounted on a 12 ft mast above the dome of the Pavilion on Mount Hill, a small eminence about 250 yd from the sea and north-west of the town. There was open sea from west-south-west to east-north-east through north and in other directions the land was very flat. There were mountains to the east but even in that direction there was no ground above 100 ft within 10 miles.

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		JANUARY												
Calm														0.8
1-3	1-3													7.0
4-6	4-7	1.1	1.2	0.9	1.0	1.3	1.8	2.3	1.0	0.9	0.4	0.4	0.4	12.7
7-10	8-12	1.9	1.6	0.9	1.1	2.3	4.3	3.6	1.7	2.4	1.5	1.1	0.8	23.2
11-16	13-18	2.1	1.7	0.6	1.1	2.9	4.7	2.9	2.1	2.6	3.8	2.0	1.0	27.5
17-21	19-24	1.1	0.4	0.3	0.1	0.7	0.7	0.5	1.1	1.4	2.2	2.7	1.3	12.5
22-27	25-31	0.4	0.2	0.1		0.2	0.2	0.1	0.2	0.4	0.9	1.7	1.4	5.8
28-33	32-38	0.3	0+							0+	0.3	0.5	0.6	1.7
34-40	39-46	0+									0.2	0.1	0.3	0.6
41-47	47-54	0+											0.1	0.1
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.9	5.1	2.8	3.3	7.4	11.7	9.4	6.1	7.7	9.3	8.5	5.9	91.9
		Percentage number of hours missed												8.1
		FEBRUARY												
Calm														1.4
1-3	1-3													11.0
4-6	4-7	1.0	1.8	1.4	1.5	2.0	2.3	1.6	1.1	0.7	0.8	0.8	0.9	15.9
7-10	8-12	2.2	2.4	2.2	1.5	2.6	4.2	2.3	1.6	1.2	1.7	1.9	1.4	25.2
11-16	13-18	3.2	2.5	1.4	1.3	1.8	3.0	2.3	2.6	3.1	2.3	3.5	2.6	29.6
17-21	19-24	0.5	1.0	0.7	0.3	0.4	1.1	0.5	0.8	1.6	1.8	1.9	1.4	12.0
22-27	25-31	0.1	0.6	0.1		0+	0.3	0.2	0.2	0.3	0.4	0.9	0.3	3.4
28-33	32-38	0+	0+				0.1	0+	0+		0+	0.3	0.1	0.5
34-40	39-46							0+						0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		7.0	8.3	5.8	4.6	6.8	11.0	6.9	6.3	6.9	7.0	9.3	6.7	99.0
		Percentage number of hours missed												0.9

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

FLEETWOOD *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		MARCH												
Calm														1.6
1-3	1-3													10.2
4-6	4-7	1.0	0.7	1.4	1.6	1.9	3.2	2.4	0.9	0.8	0.7	0.8	1.1	16.5
7-10	8-12	1.3	1.0	1.9	2.2	3.5	6.0	3.5	1.4	1.7	1.3	1.3	1.4	26.5
11-16	13-18	1.3	1.4	1.8	1.5	2.3	5.5	3.9	2.2	3.0	2.7	2.9	2.1	30.6
17-21	19-24	0.3	0.5	0.6	0.5	0.5	1.2	1.1	0.4	1.3	1.5	1.4	0.9	10.2
22-27	25-31	0.1		0.1	0.3	0.1	0.2	0.1	0+	0.2	0.4	0.5	0.6	2.6
28-33	32-38	0.1			0.1					0+	0+		0.2	0.4
34-40	39-46												0.1	0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.1	3.6	5.8	6.2	8.3	16.1	11.0	4.9	7.0	6.6	6.9	6.4	98.7
		Percentage number of hours missed												1.3
		APRIL												
Calm														1.7
1-3	1-3													12.4
4-6	4-7	1.2	1.2	1.5	1.6	2.0	2.9	2.0	1.2	1.5	1.2	1.6	1.1	19.0
7-10	8-12	1.5	2.0	1.7	1.2	2.5	3.5	3.0	1.9	2.9	2.7	2.7	2.0	27.6
11-16	13-18	2.0	1.6	1.8	0.9	0.8	0.5	1.8	1.6	3.4	3.0	4.4	3.8	25.6
17-21	19-24	0.8	0.5	0.5		0+		0.2	0.2	0.8	1.1	2.7	1.7	8.5
22-27	25-31	0.7	0+	0.1						0.3	0.3	1.1	1.2	3.7
28-33	32-38	0+									0.1	0.7	0.4	1.2
34-40	39-46										0+	0+	0.2	0.2
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.2	5.3	5.6	3.7	5.3	6.9	7.0	4.9	8.9	8.4	13.2	10.4	99.9
		Percentage number of hours missed												0.2
		MAY												
Calm														2.2
1-3	1-3													11.3
4-6	4-7	1.8	1.2	1.7	1.6	1.8	2.7	1.4	0.6	0.5	0.9	1.3	1.7	17.2
7-10	8-12	1.5	1.6	1.9	2.3	3.4	4.3	2.2	0.9	1.0	2.2	2.2	2.1	25.6
11-16	13-18	1.3	1.8	1.5	1.9	2.1	2.0	1.9	1.6	2.7	3.4	3.7	4.0	27.9
17-21	19-24	1.1	0.6	0.4	0.1	0.2	0.1	0.1	0.2	1.2	1.2	2.6	2.6	10.4
22-27	25-31	0.5	0.2	0+						0.1	0.4	1.1	1.9	4.2
28-33	32-38	0.1								0+	0.2	0.2	0.1	0.6
34-40	39-46	0+								0+	0.1	0+		0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.3	5.4	5.5	5.9	7.5	9.1	5.6	3.3	5.5	8.4	11.1	12.4	99.5
		Percentage number of hours missed												0.4

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

FLEETWOOD *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
								JUNE						
Calm														2.2
1-3	1-3													12.4
4-6	4-7	1.6	1.2	0.8	1.2	2.2	2.2	1.9	1.0	0.9	1.9	2.7	1.8	19.4
7-10	8-12	1.6	1.0	0.7	1.6	2.4	1.4	1.9	1.8	2.6	3.6	4.4	2.5	25.5
11-16	13-18	1.7	0.9	1.0	0.8	1.5	1.0	1.6	2.1	2.8	3.2	5.4	4.2	26.2
17-21	19-24	0.7	0.4	0.2			0.1	0.1	0.2	1.0	0.8	2.4	2.6	8.5
22-27	25-31	0.5	0.1					0+	0+	0.5	0.7	1.4	1.4	4.6
28-33	32-38	0.1								0+	0+	0.2	0.3	0.6
34-40	39-46											0+		0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.2	3.6	2.7	3.6	6.1	4.7	5.5	5.1	7.8	10.2	16.5	12.8	99.4
													Percentage number of hours missed	0.5
								JULY						
Calm														2.8
1-3	1-3													11.6
4-6	4-7	0.9	0.6	0.7	0.5	1.1	1.4	1.1	0.8	1.2	1.9	2.7	2.4	15.3
7-10	8-12	0.9	0.7	0.9	0.6	1.1	1.9	1.9	1.5	3.0	3.9	4.8	3.6	24.8
11-16	13-18	1.5	0.2	0.7	0.4	0.7	1.3	1.5	1.5	4.1	6.1	7.1	5.4	30.5
17-21	19-24	0.8	0.1	0.2	0+		0.2	0.1	0.2	0.9	2.3	3.5	1.3	9.6
22-27	25-31	0.1							0.1	0.2	0.9	1.8	0.9	4.0
28-33	32-38										0.1	0.3	0.1	0.5
34-40	39-46											0.1	0.1	0.2
41-47	47-54											0.2	0+	0.2
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.2	1.6	2.5	1.5	2.9	4.8	4.6	4.1	9.4	15.2	20.5	13.8	99.5
													Percentage number of hours missed	0.5
								AUGUST						
Calm														2.3
1-3	1-3													11.8
4-6	4-7	1.2	0.9	0.9	1.0	1.7	2.1	2.4	1.4	1.3	1.9	1.4	1.5	17.7
7-10	8-12	1.5	1.1	0.9	0.8	1.6	2.5	3.5	2.7	2.5	3.4	3.5	3.5	27.5
11-16	13-18	1.5	0.6	0.5	0.5	0.1	1.1	1.6	1.6	2.7	5.7	5.7	4.7	26.3
17-21	19-24	0.5	0.2	0.1			0.1	0.2	0.2	0.7	1.6	2.4	3.2	9.2
22-27	25-31	0.2						0.1	0+	0.1	0.2	0.8	1.0	2.4
28-33	32-38	0+								0+	0.4	0.7	0.4	1.5
34-40	39-46										0.1	0.2	0.1	0.4
41-47	47-54											0+		0+
48-55	55-63											0+		0+
56-63	64-72													
>63	>72													
TOTAL		4.9	2.8	2.4	2.3	3.4	5.8	7.8	5.9	7.3	13.3	14.7	14.4	99.1
													Percentage number of hours missed	0.9

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

FLEETWOOD *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							SEPTEMBER							
Calm														1.7
1-3	1-3													9.2
4-6	4-7	0.8	0.7	0.9	1.1	1.8	2.9	2.2	0.9	1.2	1.2	0.5	0.6	14.8
7-10	8-12	0.9	0.4	0.9	1.1	2.4	4.0	3.1	2.1	2.2	2.8	2.1	1.0	23.0
11-16	13-18	1.8	0.8	1.0	1.0	0.9	1.4	2.5	2.1	3.5	4.1	4.1	3.0	26.2
17-21	19-24	0.8	0.4	0.3	0.1	0.2	0.2	0.6	0.8	1.5	2.5	2.7	3.8	13.9
22-27	25-31	0.5	0.1	0.2		0+	0.1	0.1	0.2	1.1	0.8	2.1	1.8	7.0
28-33	32-38	0.1								0.3	0.7	1.2	0.5	2.8
34-40	39-46										0.1	0.1	0.1	0.3
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.9	2.4	3.3	3.3	5.3	8.6	8.5	6.1	9.8	12.2	12.8	10.8	98.9
Percentage number of hours missed														1.1
							OCTOBER							
Calm														2.0
1-3	1-3													10.4
4-6	4-7	0.5	0.8	1.0	1.2	2.0	4.5	3.2	1.3	1.1	0.8	0.8	0.6	17.8
7-10	8-12	1.1	1.0	1.0	0.6	1.3	4.9	5.1	2.3	2.4	2.2	1.4	1.2	24.5
11-16	13-18	2.3	1.2	0.6	0.1	0.2	2.1	2.8	2.9	4.0	4.5	3.1	2.0	25.8
17-21	19-24	1.5	0.9	0.2	0+	0.1	0.4	0.4	0.9	1.4	1.7	2.1	1.3	10.9
22-27	25-31	0.7	0.2	0.1	0+		0.2	0.1	0+	0.3	1.0	1.5	0.7	4.8
28-33	32-38	0.1	0+	0+				0+		0+	0+	0.6	0.7	1.4
34-40	39-46	0.1										0+	0.2	0.3
41-47	47-54	0+										0+	0.1	0.1
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.3	4.1	2.9	1.9	3.6	12.1	11.6	7.4	9.2	10.2	9.5	6.8	98.0
Percentage number of hours missed														2.1
							NOVEMBER							
Calm														2.3
1-3	1-3													9.9
4-6	4-7	0.5	1.0	1.5	1.2	1.2	2.7	2.2	1.0	0.6	0.5	0.6	0.4	13.4
7-10	8-12	1.8	1.8	1.6	1.0	2.1	4.3	5.0	1.4	1.2	1.6	1.6	1.3	24.7
11-16	13-18	3.1	2.6	1.6	1.0	1.4	3.9	4.2	1.4	2.3	3.5	3.4	2.1	30.5
17-21	19-24	1.0	0.4	0.4	0.1	0.3	0.9	0.7	0.3	0.8	1.2	1.5	1.6	9.2
22-27	25-31	0.4	0+	0+		0.1	0.4	0.3	0.1	0.4	1.1	1.3	1.0	5.1
28-33	32-38	0.2					0+	0.1	0.1	0+	0.4	0.9	0.8	2.5
34-40	39-46	0+					0+	0+			0.1	0.2	0.3	0.6
41-47	47-54	0+											0+	0+
48-55	55-63												0+	0+
56-63	64-72													
>63	>72													
TOTAL		7.0	5.8	5.1	3.3	5.1	12.2	12.5	4.3	5.3	8.4	9.5	7.5	98.2
Percentage number of hours missed														1.7

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

FLEETWOOD *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350°–010°	020°–040°	050°–070°	080°–100°	110°–130°	140°–160°	170°–190°	200°–220°	230°–250°	260°–280°	290°–310°	320°–340°	All directions Total
							DECEMBER							
Calm														1.1
1-3	1-3													7.9
4-6	4-7	0.6	0.5	1.0	0.9	1.7	2.5	2.4	0.8	0.8	0.4	0.3	0.3	12.2
7-10	8-12	1.0	1.2	1.4	0.8	2.2	6.7	4.9	1.5	1.9	1.2	0.6	0.6	24.0
11-16	13-18	1.8	0.7	0.8	0.3	1.2	3.2	4.1	3.3	3.7	3.7	2.2	1.4	26.4
17-21	19-24	0.7	0.2	0.3	0.3	0.4	0.7	0.8	0.9	1.8	3.1	2.3	1.2	12.7
22-27	25-31	0.3		0.1	0+	0.1	0.4	0.3	0.2	0.8	1.8	2.0	0.7	6.7
28-33	32-38	0.1					0+	0+		0.1	1.0	0.9	0.4	2.5
34-40	39-46										0.3	0.6	0.3	1.2
41-47	47-54										0+	0.1	0.1	0.2
48-55	55-63												0.1	0.1
56-63	64-72													
>63	>72													
TOTAL		4.5	2.6	3.6	2.3	5.6	13.5	12.5	6.7	9.1	11.5	9.0	5.1	95.0
										Percentage number of hours missed				5.0
							YEAR							
Calm														1.9
1-3	1-3													10.4
4-6	4-7	1.0	1.0	1.2	1.2	1.7	2.6	2.1	1.0	1.0	1.1	1.2	1.1	16.2
7-10	8-12	1.4	1.3	1.3	1.2	2.3	4.0	3.3	1.7	2.1	2.4	2.3	1.8	25.1
11-16	13-18	2.0	1.3	1.1	0.9	1.3	2.5	2.6	2.1	3.1	3.9	3.9	3.0	27.7
17-21	19-24	0.8	0.5	0.3	0.1	0.2	0.5	0.5	0.5	1.2	1.8	2.3	1.9	10.6
22-27	25-31	0.4	0.1	0.1	0+	0.1	0.2	0.1	0.1	0.4	0.7	1.4	1.1	4.7
28-33	32-38	0.1	0+	0+	0+		0+	0+	0+	0+	0.3	0.5	0.4	1.3
34-40	39-46	0+					0+	0+		0+	0.1	0.1	0.1	0.3
41-47	47-54											0+	0+	0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.7	4.2	4.0	3.4	5.6	9.8	8.6	5.4	7.8	10.3	11.7	9.4	98.2
										Percentage number of hours missed				1.9

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SPEKE (53° 21′N, 02° 53′W) 1950, 1953-59

Height of vane:

above MSL	180′
above ground	100′
above building	52′
effective height	65′

The anemometer was situated above the roof of the Control Tower. Hangars to the north-west and other buildings to the west and east increased the gustiness of winds from those directions. The ground was fairly flat within a radius of about 5 miles in all directions.

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
		JANUARY												
Calm														6.7
1-3	1-3													11.6
4-6	4-7	1.1	0.4	0.8	1.3	0.8	1.6	1.3	0.7	0.7	0.5	1.1	1.1	11.4
7-10	8-12	2.9	0.9	1.5	1.5	1.6	2.7	2.2	1.0	1.1	1.0	2.0	2.0	20.4
11-16	13-18	3.1	0.4	1.1	1.3	1.7	5.3	3.7	1.4	1.8	2.6	3.6	2.7	28.7
17-21	19-24	1.0	0.1	0.3	0.4	1.4	1.9	1.6	0.6	1.1	1.3	1.9	1.5	13.1
22-27	25-31			0.1	0.1	0.3	0.8	0.5	0.5	0.7	0.6	1.5	0.5	5.6
28-33	32-38	0+			0+		0.1	0.2	0.2	0.2	0.4	0.4	0.3	1.8
34-40	39-46								0.1	0.1	0.3	0.1	0+	0.6
41-47	47-54									0+	0+			0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		8.1	1.8	3.8	4.6	5.8	12.4	9.5	4.5	5.7	6.7	10.6	8.1	99.9
Percentage number of hours missed														0
		FEBRUARY												
Calm														4.8
1-3	1-3													11.2
4-6	4-7	2.0	1.4	1.3	0.9	1.1	1.6	1.4	0.7	0.5	0.6	1.1	1.3	13.9
7-10	8-12	2.8	1.5	2.4	1.4	1.4	3.5	2.1	1.0	0.9	0.8	1.3	2.3	21.4
11-16	13-18	3.8	1.0	1.5	1.4	1.6	5.7	3.6	1.7	2.3	1.4	3.3	2.5	29.8
17-21	19-24	0.9	0.1	0.4	0.3	0.5	1.5	1.4	0.8	1.9	0.9	2.0	0.6	11.3
22-27	25-31	0.3	0+		0.1	0.2	0.4	1.0	0.7	1.5	0.9	0.7	0.1	5.9
28-33	32-38		0+	0+		0.1	0+	0.1	0.2	0.7	0.1	0.1	0.1	1.4
34-40	39-46					0+	0+		0.1	0.1	0.1			0.3
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		9.8	4.0	5.6	4.1	4.9	12.7	9.6	5.2	7.9	4.8	8.5	6.9	100.0
Percentage number of hours missed														0.1

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SPEKE *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		MARCH												
Calm														4.7
1-3	1-3													10.1
4-6	4-7	1.1	1.0	1.5	1.5	1.0	1.9	0.7	0.4	0.3	0.4	1.8	1.7	13.3
7-10	8-12	1.2	0.9	2.4	2.3	2.0	4.9	2.0	0.6	0.8	0.6	2.5	1.9	22.1
11-16	13-18	1.1	0.8	2.8	2.8	4.7	7.1	3.0	1.0	1.6	1.6	3.0	2.8	32.3
17-21	19-24	0.2	0.1	0.4	0.5	2.1	3.0	1.8	0.4	1.2	0.7	1.0	1.0	12.4
22-27	25-31		0+	0+	0.1	1.2	0.8	0.4	0.1	1.1	0.4	0.1	0.2	4.4
28-33	32-38					0.1	0.1	0.1	0+	0.2	0.1			0.6
34-40	39-46									0.1				0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.6	2.8	7.1	7.2	11.1	17.8	8.0	2.5	5.3	3.8	8.4	7.6	100.0
		Percentage number of hours missed												0
		APRIL												
Calm														4.5
1-3	1-3													11.1
4-6	4-7	1.0	0.9	1.3	1.2	1.0	1.8	1.5	0.7	0.6	0.6	2.4	2.3	15.3
7-10	8-12	2.5	2.3	2.3	1.1	1.4	2.9	2.3	1.1	1.1	0.7	4.3	3.7	25.7
11-16	13-18	1.5	1.2	3.1	0.8	1.3	2.1	2.2	1.1	2.5	1.7	5.8	4.4	27.7
17-21	19-24	0.2	0.3	0.7	0+	0+	0.4	1.4	0.6	1.6	1.1	2.2	1.6	10.1
22-27	25-31	0.1		0.2		0+	0.2	0.6	0.5	1.0	0.8	0.8	0.8	5.0
28-33	32-38							0+	0.2	0.2	0.1			0.5
34-40	39-46									0+				0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.3	4.7	7.6	3.1	3.7	7.4	8.0	4.2	7.0	5.0	15.5	12.8	99.9
		Percentage number of hours missed												0
		MAY												
Calm														4.7
1-3	1-3													9.0
4-6	4-7	0.8	1.0	1.9	1.2	1.0	1.9	1.4	0.7	0.5	0.4	2.1	1.6	14.5
7-10	8-12	0.9	1.1	3.0	2.0	1.7	2.6	1.7	1.0	1.0	0.9	4.5	3.0	23.4
11-16	13-18	1.4	1.0	2.7	1.8	1.8	3.3	2.7	1.5	1.8	2.0	5.9	5.6	31.5
17-21	19-24	0.1	0.2	0.7	0.5	0.6	0.8	1.4	1.0	1.3	0.7	2.3	1.7	11.3
22-27	25-31		0.1	0.2	0+		0.1	1.3	0.7	1.0	0.3	0.7	0.2	4.6
28-33	32-38			0+				0+	0+	0.4	0.2			0.6
34-40	39-46								0+	0.2				0.2
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.2	3.4	8.5	5.5	5.1	8.7	8.5	4.9	6.2	4.5	15.5	12.1	99.8
		Percentage number of hours missed												0.1

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SPEKE *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							JUNE							
Calm														4.1
1-3	1-3													10.6
4-6	4-7	0.8	0.4	1.0	1.1	1.0	1.0	1.4	1.2	1.1	0.7	2.7	2.1	14.5
7-10	8-12	0.7	0.5	2.0	2.0	1.5	1.7	2.4	1.4	1.7	1.9	6.9	3.7	26.4
11-16	13-18	0.8	0.4	1.6	2.0	1.3	2.0	2.9	1.9	2.4	2.4	9.0	5.2	31.9
17-21	19-24	0+		0.1	0.2	0.5	0.5	0.9	0.6	1.3	1.0	2.4	1.4	8.9
22-27	25-31			0+		0.1	0.1	0.4	0.3	0.6	0.2	0.3	0.4	2.4
28-33	32-38							0.1	0.1	0.2				0.4
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.3	1.3	4.7	5.3	4.4	5.3	8.1	5.5	7.3	6.2	21.3	12.8	99.2
Percentage number of hours missed														0.8
							JULY							
Calm														5.1
1-3	1-3													13.1
4-6	4-7	1.1	1.0	1.5	0.8	0.8	1.3	1.7	0.8	0.8	1.2	3.2	2.3	16.5
7-10	8-12	1.2	0.8	1.4	1.0	0.6	1.5	2.7	1.4	1.6	1.7	6.6	4.2	24.7
11-16	13-18	0.4	0.2	1.1	0.8	0.6	2.0	2.4	1.6	2.7	2.8	10.9	4.0	29.5
17-21	19-24	0+		0+	0.1	0.1	0.5	0.9	0.6	1.4	1.3	3.3	0.8	9.0
22-27	25-31						0.1	0.1	0.1	0.6	0.5	0.3	0+	1.7
28-33	32-38							0+		0.1	0.2	0.1		0.4
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.7	2.0	4.0	2.7	2.1	5.4	7.8	4.5	7.2	7.7	24.4	11.3	100.0
Percentage number of hours missed														0
							AUGUST							
Calm														3.3
1-3	1-3													12.4
4-6	4-7	1.1	0.8	1.4	1.2	1.0	1.9	2.1	1.6	0.9	1.1	2.7	2.0	17.8
7-10	8-12	0.9	0.5	1.5	1.2	1.4	2.7	2.9	2.2	2.2	1.6	6.2	2.6	25.9
11-16	13-18	0.5	0.2	1.0	0.5	1.2	2.2	4.3	2.4	3.3	2.6	8.2	4.1	30.5
17-21	19-24	0.1	0.1		0.1	0.1	0.5	0.8	0.5	1.3	1.0	1.6	0.5	6.6
22-27	25-31	0.1					0.1	0.1	0.3	0.5	0.6	0.5	0.2	2.4
28-33	32-38	0+					0+	0+	0.1	0.1	0.3	0.2		0.7
34-40	39-46									0.1	0+	0+		0.1
41-47	47-54									0+				0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.7	1.6	3.9	3.0	3.7	7.4	10.2	7.1	8.4	7.2	19.4	9.4	99.7
Percentage number of hours missed														0.3

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SPEKE *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							SEPTEMBER							
Calm														2.6
1-3	1-3													10.8
4-6	4-7	0.4	0.2	2.0	1.7	1.5	1.9	1.7	0.9	0.7	0.9	1.2	0.7	13.8
7-10	8-12	0.7	0.2	1.5	2.1	2.1	3.3	2.4	1.7	2.1	2.2	3.2	1.5	23.0
11-16	13-18	1.2	0.3	1.4	1.3	2.2	3.1	3.9	2.5	2.6	3.6	4.9	2.6	29.6
17-21	19-24	0.2	0.1	0.3	0.3	0.5	0.9	1.7	0.9	1.7	1.6	2.6	1.6	12.4
22-27	25-31	0+		0.1	0.1	0.1	0.2	1.0	0.5	1.0	0.8	1.2	0.7	5.7
28-33	32-38				0+		0+	0.2	0.1	0.6	0.4	0.1		1.4
34-40	39-46							0.1	0.1	0.2				0.4
41-47	47-54									0+				0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.5	0.8	5.3	5.5	6.4	9.4	11.0	6.7	8.9	9.5	13.2	7.1	99.7
										Percentage number of hours missed				0.3
							OCTOBER							
Calm														5.0
1-3	1-3													13.5
4-6	4-7	1.3	0.6	0.6	0.8	1.3	2.6	2.0	0.9	1.1	0.8	1.5	1.9	15.4
7-10	8-12	1.8	0.7	0.4	0.6	1.4	4.4	4.0	1.9	1.8	1.9	2.7	2.1	23.7
11-16	13-18	1.7	0.3	0.3	0.4	0.9	2.9	4.3	2.9	3.6	3.5	3.4	2.7	26.9
17-21	19-24	0.3	0+	0.1		0.3	1.0	1.4	1.3	2.0	2.0	1.6	1.1	11.1
22-27	25-31	0+				0+	0.5	0.4	0.2	1.2	0.5	0.4	0.4	3.6
28-33	32-38						0.2		0+	0.1	0.1	0.2	0.1	0.7
34-40	39-46									0+	0+	0.1	0+	0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.1	1.6	1.4	1.8	3.9	11.6	12.1	7.2	9.8	8.8	9.9	8.3	100.0
										Percentage number of hours missed				0
							NOVEMBER							
Calm														7.9
1-3	1-3													13.9
4-6	4-7	1.8	0.9	0.9	0.7	0.5	1.8	2.2	0.8	1.2	1.2	1.3	1.0	14.3
7-10	8-12	2.5	1.2	0.7	1.2	1.3	4.7	3.7	1.3	1.9	2.0	1.8	2.0	24.3
11-16	13-18	2.7	0.5	0.5	0.6	1.4	5.1	4.5	1.6	2.3	2.2	1.9	2.7	26.0
17-21	19-24	0.2	0+		0+	0.6	2.0	1.4	0.5	0.9	0.9	1.2	1.0	8.7
22-27	25-31	0+		0+	0+	0.2	0.7	0.7	0.2	0.4	0.6	0.3	0.1	3.2
28-33	32-38					0.2	0.3	0.2	0.2	0.2	0.2	0.1		1.4
34-40	39-46						0+	0+	0.2	0+				0.2
41-47	47-54							0.1		0+				0.1
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		7.2	2.6	2.1	2.5	4.2	14.6	12.8	4.8	6.9	7.1	6.6	6.8	100.0
										Percentage number of hours missed				0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SPEKE *(contd)*

Mean wind speed knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							DECEMBER							
Calm														3.6
1-3	1-3													11.6
4-6	4-7	1.1	1.0	1.1	0.8	1.0	2.4	1.8	0.6	0.6	0.7	0.9	1.0	13.0
7-10	8-12	1.0	1.0	1.1	1.1	1.6	3.7	2.8	1.3	1.6	1.1	1.6	1.5	19.4
11-16	13-18	0.6	0.2	0.7	1.3	2.8	5.2	4.2	1.5	2.7	2.6	3.0	2.4	27.2
17-21	19-24	0+	0.3	0.1	0.6	1.2	1.8	1.9	0.9	2.1	2.4	2.1	0.8	14.2
22-27	25-31		0+		0.3	0.8	0.9	0.7	0.5	1.4	1.5	1.3	0.3	7.7
28-33	32-38				0+	0.3	0.2	0+	0.2	0.6	0.6	0.5	0.2	2.6
34-40	39-46				0+	0+	0+	0+	0.1	0.2	0.1	0+		0.4
41-47	47-54									0+				0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.7	2.5	3.0	4.1	7.7	14.2	11.4	5.1	9.2	9.0	9.4	6.2	99.7
Percentage number of hours missed														0.2
							YEAR							
Calm														4.8
1-3	1-3													11.6
4-6	4-7	1.1	0.8	1.3	1.1	1.0	1.8	1.6	0.8	0.8	0.7	1.8	1.6	14.4
7-10	8-12	1.6	1.0	1.7	1.5	1.5	3.2	2.6	1.3	1.5	1.4	3.6	2.5	23.4
11-16	13-18	1.6	0.5	1.5	1.2	1.8	3.8	3.5	1.8	2.5	2.4	5.2	3.5	29.3
17-21	19-24	0.3	0.1	0.3	0.3	0.7	1.2	1.4	0.7	1.5	1.2	2.0	1.1	10.8
22-27	25-31	0.1	0+	0.1	0.1	0.2	0.4	0.6	0.4	0.9	0.6	0.7	0.3	4.4
28-33	32-38	0+	0+	0+	0+	0+	0.1	0.1	0.1	0.3	0.2	0.1	0.1	1.0
34-40	39-46				0+	0+	0+	0+	0.1	0.1	0+	0+	0+	0.2
41-47	47-54							0+		0+	0+			0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.7	2.4	4.9	4.2	5.2	10.5	9.8	5.2	7.6	6.5	13.4	9.1	99.9
Percentage number of hours missed														0.1

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

MANCHESTER (RINGWAY) (53° 21′N, 02° 16′W) 1950, 1954-59

Height of vane:	1950	1954-59
above MSL	328′	318′
above ground	80′	70′
above building	40′	30′
effective height	40′	30′

The anemometer was well exposed for winds from all directions except the east where a hangar caused some increase in turbulence.

Mean wind speed knots	Mean wind speed m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		Percentage number of hours with winds from												
		JANUARY												
Calm														4.9
1-3	1-3													7.9
4-6	4-7	0.6	0.9	1.3	1.1	0.8	1.7	1.6	1.3	0.8	0.9	1.3	0.7	13.0
7-10	8-12	0.8	1.2	1.7	1.8	1.5	2.4	4.4	3.3	1.7	2.0	2.7	1.5	25.0
11-16	13-18	1.1	0.7	0.9	1.4	1.9	5.0	7.3	3.4	2.6	2.8	2.5	1.6	31.2
17-21	19-24	0.4	0.1	0.3	1.5	0.4	1.8	3.7	1.0	0.8	1.2	1.0	0.3	12.5
22-27	25-31	0+		0+	0.4	0.1	0.4	1.2	0.2	0.3	0.8	0.5	0.1	4.0
28-33	32-38	0+			0.1	0+	0+	0.1		0.2	0.1	0.1		0.6
34-40	39-46				0.1					0.2				0.3
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.9	2.9	4.2	6.4	4.7	11.3	18.3	9.2	6.6	7.8	8.1	4.2	99.4
Percentage number of hours missed														0.5
		FEBRUARY												
Calm														3.0
1-3	1-3													9.5
4-6	4-7	1.3	2.3	2.7	1.1	1.2	1.3	2.0	1.4	0.9	0.3	1.1	1.8	17.4
7-10	8-12	1.7	1.5	2.8	1.8	1.9	3.5	4.5	2.7	1.4	0.8	2.1	2.1	26.8
11-16	13-18	1.3	1.1	1.3	2.1	2.3	5.1	5.8	2.9	2.0	1.1	2.6	1.5	29.1
17-21	19-24	0.1	0.2	0.1	0.7	0.7	1.0	2.2	1.5	0.8	0.9	1.1	0.2	9.5
22-27	25-31				0.3	0.1	0.7	0.7	1.2	0.3	0.4	0.3	0+	4.0
28-33	32-38				0+	0.1	0.2	0.1	0.1	0.1	0.1	0+		0.7
34-40	39-46						0+			0+				0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
> 63	> 72													
TOTAL		4.4	5.1	6.9	6.0	6.3	11.8	15.3	9.8	5.5	3.6	7.2	5.6	100.0
Percentage number of hours missed														0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

MANCHESTER (RINGWAY) *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°–010°	020°–040°	050°–070°	080°–100°	110°–130°	140°–160°	170°–190°	200°–220°	230°–250°	260°–280°	290°–310°	320°–340°	All directions Total
		MARCH												
Calm														2.7
1-3	1-3													7.6
4-6	4-7	0.5	1.1	2.6	1.6	1.4	1.2	1.3	1.0	0.5	0.5	1.3	1.1	14.1
7-10	8-12	0.7	1.8	4.1	3.2	3.7	4.4	4.0	1.4	0.8	1.0	2.2	1.3	28.6
11-16	13-18	0.7	0.8	2.4	3.9	4.4	6.0	5.2	2.1	1.4	1.8	2.8	1.3	32.8
17-21	19-24	0.1	0.1	0.3	1.7	1.6	1.8	2.2	0.8	0.4	0.5	1.0	0.2	10.7
22-27	25-31				0.4	0.4	0.5	0.9	0.3	0.2	0.3	0.3		3.3
28-33	32-38						0+	0.2	0.1	0+		0+		0.3
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.0	3.8	9.4	10.8	11.5	13.9	13.8	5.7	3.3	4.1	7.6	3.9	100.1
Percentage number of hours missed														0
		APRIL												
Calm														2.8
1-3	1-3													11.2
4-6	4-7	1.3	2.2	2.7	2.2	1.3	1.1	2.0	1.8	1.3	1.7	1.9	1.5	21.0
7-10	8-12	1.4	3.7	2.9	1.7	1.4	2.4	3.5	2.7	1.4	1.9	3.1	2.3	28.4
11-16	13-18	0.7	3.3	1.4	1.2	0.4	1.8	3.7	3.4	2.2	2.7	4.4	1.9	27.1
17-21	19-24	0.1	0.1	0.1	0+		0.3	1.2	0.9	0.8	1.8	1.7	0.7	7.7
22-27	25-31						0.1	0.2	0.2	0.2	0.4	0.4	0+	1.5
28-33	32-38								0+	0+	0.2	0+		0.2
34-40	39-46								0+		0+			0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.5	9.3	7.1	5.1	3.1	5.7	10.6	9.0	5.9	8.7	11.5	6.4	99.9
Percentage number of hours missed														0.1
		MAY												
Calm														3.0
1-3	1-3													10.4
4-6	4-7	0.9	2.4	2.4	1.9	1.2	1.1	1.2	1.6	1.4	1.7	2.0	1.2	19.0
7-10	8-12	0.9	2.5	4.0	2.0	1.9	1.9	3.2	2.7	1.9	2.0	3.6	1.7	28.3
11-16	13-18	0.5	1.4	2.1	2.2	2.2	2.0	2.9	3.5	2.2	3.1	5.0	2.4	29.5
17-21	19-24	0.2	0.1	0.6	0.4	0.2	1.1	0.9	1.2	0.6	0.9	1.5	0.6	8.3
22-27	25-31			0.2	0+		0.1	0.2	0.2	0.1	0.5	0.2	0.1	1.6
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.5	6.4	9.3	6.5	5.5	6.2	8.4	9.2	6.2	8.2	12.3	6.0	100.1
Percentage number of hours missed														0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

MANCHESTER (RINGWAY) *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							JUNE							
Calm														2.7
1-3	1-3													10.6
4-6	4-7	0.7	1.7	1.6	1.2	1.0	1.2	2.7	1.9	1.9	2.6	2.9	1.3	20.7
7-10	8-12	0.3	2.0	2.0	2.4	1.1	1.9	3.4	3.5	3.0	3.5	5.6	2.1	30.8
11-16	13-18	0.3	0.9	1.6	2.5	1.9	1.6	3.8	3.3	2.2	3.5	5.7	1.8	29.1
17-21	19-24	0.1		0.1	0.8	0.3	0.2	0.7	0.7	0.7	0.9	0.8	0.2	5.5
22-27	25-31				0+	0.1	0+	0.1	0.1	0.1	0.2	0+		0.6
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.4	4.6	5.3	6.9	4.4	4.9	10.7	9.5	7.0	10.7	15.0	5.4	100.0
													Percentage number of hours missed	0
							JULY							
Calm														5.6
1-3	1-3													10.8
4-6	4-7	0.7	1.5	2.3	0.9	1.0	1.1	1.7	1.9	1.4	2.7	2.8	2.0	20.0
7-10	8-12	0.4	1.4	2.0	1.4.	1.1	1.7	4.3	3.7	2.6	3.9	4.9	2.1	29.5
11-16	13-18	0.1	0.6	0.6	1.0	1.2	1.8	4.2	3.6	2.8	6.7	4.9	1.2	28.7
17-21	19-24				0+	0.1	0.2	0.9	1.0	0.6	0.8	0.6	0+	4.2
22-27	25-31						0+	0.1	0.2	0.1	0.3	0.4		1.1
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.2	3.5	4.9	3.3	3.4	4.8	11.2	10.4	7.5	14.4	13.6	5.3	99.9
													Percentage number of hours missed	0
							AUGUST							
Calm														3.5
1-3	1-3													8.9
4-6	4-7	0.7	1.6	2.0	1.4	1.8	1.8	2.5	1.5	1.2	1.6	2.2	1.5	19.8
7-10	8-12	0.7	1.3	1.9	2.0	2.2	3.2	6.4	3.7	2.9	2.6	4.4	1.9	33.2
11-16	13-18	0.3	0.5	0.7	1.2	1.3	2.1	5.1	5.0	2.4	3.7	4.5	1.6	28.4
17-21	19-24	0+	0+		0.1	0.1	0.6	1.1	1.0	0.5	0.7	0.3	0.2	4.6
22-27	25-31						0+	0.1	0.4	0.2	0.4	0.2		1.3
28-33	32-38							0+		0+				0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.7	3.4	4.6	4.7	5.4	7.7	15.2	11.6	7.2	9.0	11.6	5.2	99.7
													Percentage number of hours missed	0.2

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

MANCHESTER (RINGWAY) *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							SEPTEMBER							
Calm														2.0
1-3	1-3													6.1
4-6	4-7	0.2	0.4	2.1	1.8	1.7	1.3	1.7	1.8	1.4	1.1	1.0	0.9	15.4
7-10	8-12	0.5	0.4	1.8	3.0	2.7	2.6	5.8	4.9	3.4	2.6	2.7	1.8	32.2
11-16	13-18	0.6	0.2	0.7	2.3	1.5	3.2	5.5	5.3	3.8	3.6	3.8	1.7	32.2
17-21	19-24	0.2	0.1	0.1	0.4	0.2	0.6	1.5	2.2	0.8	1.3	1.2	0.4	9.0
22-27	25-31				0.1		0.2	0.5	0.6	0.4	0.5	0.4	0+	2.7
28-33	32-38							0.1	0.2	0.1	0.1	0+		0.5
34-40	39-46								0.1					0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.5	1.1	4.7	7.6	6.1	7.9	15.1	15.1	9.9	9.2	9.1	4.8	100.2
							Percentage number of hours missed							0
							OCTOBER							
Calm														2.6
1-3	1-3													7.9
4-6	4-7	0.6	0.7	0.7	1.0	1.2	1.6	3.5	2.4	1.5	0.9	2.3	1.5	17.9
7-10	8-12	0.4	0.6	0.6	0.7	1.7	2.6	6.1	5.0	3.0	2.4	2.7	2.1	27.9
11-16	13-18	0.6	0.4	0.1	0.6	1.2	2.0	9.1	6.6	3.9	3.7	2.8	1.6	32.6
17-21	19-24	0.1	0.1		0.1	0.4	0.8	2.2	2.1	0.9	1.5	0.6	0.6	9.4
22-27	25-31					0+	0.4	0.3	0.4	0.1	0.1	0.1	0.1	1.5
28-33	32-38						0+		0+			0.1	0.1	0.2
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.7	1.8	1.4	2.4	4.5	7.4	21.2	16.5	9.4	8.6	8.6	6.0	100.0
							Percentage number of hours missed							0
							NOVEMBER							
Calm														4.8
1-3	1-3													11.9
4-6	4-7	0.7	1.5	1.8	1.4	1.6	1.7	3.3	2.0	1.1	0.7	2.1	1.6	19.5
7-10	8-12	0.9	1.4	1.4	1.6	1.3	2.8	6.6	2.7	2.1	1.6	2.7	2.4	27.5
11-16	13-18	0.3	0.6	0.3	1.0	1.2	4.8	8.0	3.3	1.4	1.4	1.9	1.3	25.5
17-21	19-24	0+	0+		0.4	0.5	1.5	1.9	0.6	0.4	1.1	0.4	0.1	6.9
22-27	25-31				0.1	0.3	0.8	0.5	0.3	0.1	0.6	0.1		2.8
28-33	32-38					0+	0.2	0.2	0.1	0+	0.1			0.6
34-40	39-46						0.1	0.1						0.2
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.9	3.5	3.5	4.5	4.9	11.9	20.6	9.0	5.1	5.5	7.2	5.4	99.7
							Percentage number of hours missed							0.2

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

MANCHESTER (RINGWAY) *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
DECEMBER														
Calm														2.1
1-3	1-3													8.4
4-6	4-7	0.9	1.5	1.4	0.6	0.7	1.5	2.9	1.6	0.7	1.0	0.9	0.8	14.5
7-10	8-12	0.2	1.2	1.3	1.2	1.5	2.9	6.5	3.5	1.8	1.1	1.4	0.8	23.4
11-16	13-18	0+	0.4	0.6	1.6	2.1	3.4	8.7	5.4	2.9	3.3	2.2	0.6	31.2
17-21	19-24		0.1	0.1	0.7	1.2	1.4	2.7	2.2	1.5	2.8	1.0	0.1	13.8
22-27	25-31				0.3	0.9	0.8	1.0	0.7	0.5	0.9	0.3	0.1	5.5
28-33	32-38				0.1	0.1	0+		0.1		0.4	0.2	0+	0.9
34-40	39-46										0+	0.1		0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.1	3.2	3.4	4.5	6.5	10.0	21.8	13.5	7.4	9.5	6.1	2.4	99.9
Percentage number of hours missed														0
YEAR														
Calm														3.3
1-3	1-3													9.3
4-6	4-7	0.8	1.5	2.0	1.4	1.2	1.4	2.2	1.7	1.2	1.3	1.8	1.3	17.8
7-10	8-12	0.7	1.6	2.2	1.9	1.8	2.7	4.9	3.3	2.2	2.1	3.2	1.8	28.4
11-16	13-18	0.5	0.9	1.1	1.7	1.8	3.2	5.8	4.0	2.5	3.2	3.6	1.5	29.8
17-21	19-24	0.1	0.1	0.1	0.6	0.5	0.9	1.8	1.3	0.7	1.2	0.9	0.3	8.5
22-27	25-31	0+		0+	0.1	0.2	0.3	0.5	0.4	0.2	0.5	0.3	0+	2.5
28-33	32-38	0+			0+	0+	0+	0.1	0.1	0+	0.1	0+	0+	0.3
34-40	39-46				0+		0+	0+	0+	0+	0+	0+		0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.1	4.1	5.4	5.7	5.5	8.5	15.3	10.8	6.8	8.4	9.8	4.9	99.9
Percentage number of hours missed														0.1

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

HOLYHEAD (53° 19′N, 04° 37′W) 1950-52
VALLEY (53° 15′N, 04° 32′W) 1953-59

Height of vane:	1950-52	1953-59
above MSL	68′	83′
above ground	43′	50′
above building	29′	10′
effective height	35′	40′

Until 1952 the records were taken from the anemometer at Holyhead. The site was fully exposed to winds from all directions. From 1953 onwards the records used were from the anemometer at Valley. The anemometer was situated on the Air Traffic Control building with the head well above the general level of the surrounding buildings with the exception of the Control Tower itself which may have given a slight degree of interference.

NB After a comparison of the records from the two anemometers it was decided that the tables should be compiled using Holyhead up to 1952 and Valley from then to 1959.

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
								JANUARY						
Calm														4.6
1-3	1-3													10.6
4-6	4-7	0.8	0.6	1.2	1.0	0.8	0.9	1.0	0.9	0.6	0.8	0.8	0.4	9.8
7-10	8-12	1.4	0.7	1.5	0.7	0.7	1.6	2.0	1.5	1.2	1.2	1.6	0.6	14.7
11-16	13-18	1.9	0.8	1.3	1.1	0.5	1.9	5.7	4.0	3.4	2.2	2.7	1.6	27.1
17-21	19-24	1.0	0.2	0.4	0.4	0+	0.6	3.4	2.5	2.3	2.4	1.8	1.1	16.1
22-27	25-31	0.3	0+	0.1	0.1	0+	0.3	2.2	2.2	1.6	1.9	1.6	0.6	10.9
28-33	32-38	0+			0+		0.1	0.6	1.3	0.3	1.0	1.0	0.1	4.4
34-40	39-46						0+	0.1	0.3	0.2	0.4	0.4	0.2	1.6
41-47	47-54									0+	0+	0.1		0.1
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.4	2.3	4.5	3.3	2.0	5.4	15.0	12.7	9.6	9.9	10.0	4.6	99.9
								Percentage number of hours missed						0
								FEBRUARY						
Calm														7.0
1-3	1-3													13.3
4-6	4-7	0.9	1.6	2.3	0.8	0.7	0.8	0.9	0.6	0.6	0.3	0.8	0.7	11.0
7-10	8-12	1.5	1.5	2.2	0.9	0.3	0.7	1.6	2.1	2.0	1.2	1.8	1.2	17.0
11-16	13-18	2.0	1.2	1.7	0.5	0.2	0.9	3.5	4.2	3.8	2.2	2.9	1.9	25.0
17-21	19-24	0.9	0.8	0.5	0.1	0+	0.6	2.1	2.9	2.8	2.0	1.5	0.7	14.9
22-27	25-31	0.2	0.5	0.4	0.1	0+	0.4	1.7	2.4	1.8	0.9	0.8	0.5	9.7
28-33	32-38	0.1	0.1		0+	0+	0+	0.6	0.3	0.2	0.1	0.1	0.1	1.6
34-40	39-46							0.1		0.1	0.1	0.1	0+	0.4
41-47	47-54							0+	0.1	0+	0+	0+		0.1
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.6	5.7	7.1	2.4	1.2	3.4	10.5	12.6	11.3	6.8	8.0	5.1	100.0
								Percentage number of hours missed						0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

HOLYHEAD/VALLEY *(contd)*

Mean wind speed knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		Percentage number of hours with winds from												
		MARCH												
Calm														6.0
1-3	1-3													16.0
4-6	4-7	1.3	1.2	2.4	2.3	1.0	1.2	1.0	1.5	0.8	0.8	0.7	0.7	14.9
7-10	8-12	1.5	1.3	2.4	2.0	0.7	1.2	3.2	2.2	1.5	1.4	1.0	0.8	19.2
11-16	13-18	1.8	1.5	3.0	1.9	0.8	1.7	4.7	3.7	1.9	1.8	1.2	1.0	25.0
17-21	19-24	0.6	0.4	0.9	0.5	0.2	0.7	2.6	2.6	1.3	1.1	0.9	0.3	12.1
22-27	25-31	0.2	0.1	0.3	0+		0.2	1.6	1.1	0.7	0.3	0.6	0.1	5.2
28-33	32-38		0.3	0.4				0.3	0.1	0.3	0+			1.4
34-40	39-46		0+					0.1	0+	0+				0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.4	4.8	9.4	6.7	2.7	5.0	13.5	11.2	6.5	5.4	4.4	2.9	99.9
		Percentage number of hours missed												0
		APRIL												
Calm														4.8
1-3	1-3													13.5
4-6	4-7	1.2	1.8	2.5	0.9	0.3	0.3	0.8	1.9	1.2	0.7	1.2	1.6	14.4
7-10	8-12	2.6	1.7	2.3	0.7	0.2	0.5	2.1	3.1	1.9	1.3	1.5	2.5	20.4
11-16	13-18	1.9	2.2	2.2	0.7	0.1	0.4	4.2	5.3	2.5	2.5	2.4	2.6	27.0
17-21	19-24	0.4	0.4	0.5	0.2	0.1	0.1	2.0	3.2	1.2	1.4	1.7	1.2	12.4
22-27	25-31	0+	0+	0.2	0+		0.1	1.2	1.5	0.5	0.7	0.9	0.7	5.8
28-33	32-38							0.3	0.2	0.1	0.2	0.3	0.5	1.6
34-40	39-46								0.2	0+	0.1	0+	0+	0.3
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.1	6.1	7.7	2.5	0.7	1.4	10.6	15.4	7.4	6.9	8.0	9.1	100.2
		Percentage number of hours missed												0
		MAY												
Calm														5.0
1-3	1-3													13.8
4-6	4-7	1.5	1.5	2.9	1.1	0.3	0.5	0.9	1.4	1.5	0.6	1.2	1.8	15.2
7-10	8-12	2.1	2.5	2.7	1.0	0.4	1.0	1.6	2.6	2.0	1.3	1.5	2.8	21.5
11-16	13-18	1.2	2.1	3.6	1.8	0.2	1.3	3.0	3.3	2.6	1.7	2.3	2.9	26.0
17-21	19-24	0.5	0.4	2.0	0.8	0.1	1.0	1.7	2.2	1.1	1.1	0.9	0.9	12.7
22-27	25-31	0.2	0.2	0.1	0.2		0.2	1.0	1.9	0.2	0.2	0.3	0.1	4.6
28-33	32-38						0.1	0.5	0.5	0+	0.1		0.1	1.3
34-40	39-46										0.1			0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.5	6.7	11.3	4.9	1.0	4.1	8.7	11.9	7.4	5.1	6.2	8.6	100.2
		Percentage number of hours missed												0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

HOLYHEAD/VALLEY *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
JUNE														
Calm														5.6
1-3	1-3													14.3
4-6	4-7	1.1	1.2	2.0	0.6	0.3	0.2	1.0	2.1	1.9	0.9	1.8	1.9	15.0
7-10	8-12	1.5	1.1	2.4	0.5	0.2	0.6	2.2	4.3	2.8	1.8	2.5	3.5	23.4
11-16	13-18	1.2	0.8	2.2	0.5	0.1	0.5	3.2	7.5	3.1	2.8	2.9	2.6	27.4
17-21	19-24	0.3	0.1	0.4	0.2		0.1	2.9	3.0	0.6	0.6	0.6	0.7	9.5
22-27	25-31			0+	0.1		0.1	1.1	1.4	0.6	0.2	0.1	0.5	4.1
28-33	32-38							0.2	0.5	0.1			0+	0.8
34-40	39-46								0+					0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.1	3.2	7.0	1.9	0.6	1.5	10.6	18.8	9.1	6.3	7.9	9.2	100.1
													Percentage number of hours missed	0
JULY														
Calm														4.5
1-3	1-3													12.3
4-6	4-7	1.7	1.6	1.6	0.7	0.3	0.2	1.0	2.1	1.5	0.9	1.2	1.5	14.3
7-10	8-12	1.7	1.1	1.6	0.5	0.1	0.4	1.6	5.3	3.9	2.7	2.8	2.7	24.4
11-16	13-18	1.1	0.4	0.8	0.6	0.1	0.5	3.3	8.8	4.3	3.9	3.1	1.9	28.8
17-21	19-24	0.1	0+	0.2	0.2		0.1	1.3	4.0	1.7	1.3	0.9	0.7	10.5
22-27	25-31	0+					0.1	0.4	2.1	0.8	0.4	0.3	0.1	4.2
28-33	32-38							0.1	0.5	0.2	0.1	0.1	0+	1.0
34-40	39-46												0.1	0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.6	3.1	4.2	2.0	0.5	1.3	7.7	22.8	12.4	9.3	8.4	7.0	100.1
													Percentage number of hours missed	0
AUGUST														
Calm														4.1
1-3	1-3													14.1
4-6	4-7	1.4	1.2	1.3	0.6	0.3	0.6	1.3	1.7	1.8	1.2	1.8	1.1	14.3
7-10	8-12	1.6	1.1	1.3	0.4	0.2	0.4	2.6	4.5	3.4	3.4	2.6	2.1	23.6
11-16	13-18	0.9	0.9	0.8	0.1	0.2	0.5	4.3	8.3	4.1	2.5	2.5	2.1	27.2
17-21	19-24	0.2	0+	0+	0+	0.1	0.2	2.1	3.9	1.8	1.1	0.8	0.8	11.0
22-27	25-31	0+					0+	0.4	1.8	0.7	0.7	0.4	0.1	4.1
28-33	32-38							0.1	0.3	0.3	0.2	0.1	0.2	1.2
34-40	39-46								0.2		0.1	0+	0+	0.3
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.1	3.2	3.4	1.1	0.8	1.7	10.8	20.7	12.1	9.2	8.2	6.4	99.9
													Percentage number of hours missed	0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

HOLYHEAD/VALLEY *(contd)*

Mean wind speed		Percentage number of hours with winds from												All directions
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	Total
		SEPTEMBER												
Calm														4.6
1-3	1-3													12.3
4-6	4-7	0.7	0.8	2.8	1.5	0.8	0.7	0.8	1.2	1.3	0.8	0.9	0.5	12.8
7-10	8-12	0.7	0.8	2.2	0.8	0.5	1.3	1.6	2.2	1.7	1.7	1.9	1.0	16.4
11-16	13-18	1.0	0.5	1.6	0.9	0.1	1.2	3.1	5.6	3.7	2.8	3.0	1.7	25.2
17-21	19-24	0.2	0.2	0.7	0.1		0.4	2.0	3.8	3.0	2.3	1.8	0.9	15.4
22-27	25-31	0.1	0+	0.2	0+		0.2	1.5	2.6	1.8	1.6	0.8	0.5	9.3
28-33	32-38	0.1					0.2	0.6	0.9	0.5	0.5	0.3	0.1	3.2
34-40	39-46							0.2	0.3	0.2	0+	0.1	0+	0.8
41-47	47-54								0+					0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.8	2.3	7.5	3.3	1.4	4.0	9.8	16.6	12.2	9.7	8.8	4.7	100.0
		Percentage number of hours missed												0
		OCTOBER												
Calm														5.6
1-3	1-3													12.5
4-6	4-7	0.9	0.7	0.8	1.2	1.3	1.1	0.9	0.7	0.6	0.9	1.5	0.9	11.5
7-10	8-12	1.2	0.5	0.9	1.4	0.8	1.3	2.3	1.7	1.3	1.5	1.9	1.2	16.0
11-16	13-18	1.6	0.3	0.9	0.7	0.7	1.4	4.6	5.0	3.7	2.8	2.3	1.8	25.8
17-21	19-24	0.8	0.1	0.1	0.1	0+	0.4	1.9	3.9	2.8	2.0	1.7	1.1	14.9
22-27	25-31	0.4		0.1	0+		0.1	1.0	3.0	1.7	1.7	1.2	0.7	9.9
28-33	32-38	0+					0.1	0.2	1.0	0.8	0.1	0.2	0.2	2.6
34-40	39-46						0.1		0.1	0.4	0.2	0.1	0.2	1.1
41-47	47-54						0.1			0+	0+		0+	0.1
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.9	1.6	2.8	3.4	2.8	4.6	10.9	15.4	11.3	9.2	8.9	6.1	100.0
		Percentage number of hours missed												0
		NOVEMBER												
Calm														7.2
1-3	1-3													13.1
4-6	4-7	1.5	1.1	1.5	1.6	0.7	0.7	0.5	0.7	0.6	1.0	0.8	0.4	11.1
7-10	8-12	0.7	1.1	1.6	1.3	0.6	1.0	1.3	1.4	1.3	1.0	1.7	1.1	14.1
11-16	13-18	1.5	1.4	1.5	0.8	0.5	1.9	3.7	3.3	3.3	2.7	2.1	2.0	24.7
17-21	19-24	0.9	0.2	0.3	0.3	0.2	1.5	2.9	2.8	2.5	2.1	1.0	1.4	16.1
22-27	25-31	0.3	0.1	0.1	0.2	0.3	0.8	1.6	1.5	1.6	1.9	0.7	0.5	9.6
28-33	32-38	0+				0+	0.2	0.5	0.6	0.3	0.5	0.6	0.1	2.8
34-40	39-46	0+					0.1	0.1	0.3	0.2	0.2	0.3	0+	1.2
41-47	47-54						0+	0+	0.1	0+	0+			0.1
48-55	55-63						0+		0+					0+
56-63	64-72													
>63	>72													
TOTAL		4.9	3.9	5.0	4.2	2.3	6.2	10.6	10.7	9.8	9.4	7.2	5.5	100.0
		Percentage number of hours missed												0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

HOLYHEAD/VALLEY *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		DECEMBER												
Calm														2.6
1-3	1-3													8.0
4-6	4-7	0.6	0.8	2.3	1.5	0.7	0.6	0.5	0.6	0.4	0.6	0.8	0.2	9.6
7-10	8-12	0.8	0.8	1.6	0.8	0.4	1.6	1.9	1.0	1.4	1.2	1.2	0.6	13.3
11-16	13-18	0.9	0.8	1.2	0.7	0.7	2.6	5.1	3.5	3.6	3.4	2.3	0.8	25.6
17-21	19-24	0.2	0.3	0.3	0.5	0.3	1.0	3.5	3.4	3.1	3.5	1.7	1.0	18.8
22-27	25-31	0.1	0.1	0+	0.3	0.1	0.8	1.9	3.9	2.4	1.9	1.7	0.4	13.6
28-33	32-38				0+		0.3	0.8	1.5	1.7	1.0	0.6	0+	5.9
34-40	39-46							0.1	0.6	0.5	0.5	0.3	0.1	2.1
41-47	47-54								0+	0.2	0.1	0.1	0+	0.4
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.6	2.8	5.4	3.8	2.2	6.9	13.8	14.5	13.3	12.2	8.7	3.1	99.9
		Percentage number of hours missed												0
		YEAR												
Calm														5.1
1-3	1-3													12.8
4-6	4-7	1.1	1.2	2.0	1.2	0.6	0.7	0.9	1.3	1.1	0.8	1.1	1.0	13.0
7-10	8-12	1.4	1.2	1.9	0.9	0.4	1.0	2.0	2.7	2.0	1.6	1.8	1.7	18.6
11-16	13-18	1.4	1.1	1.7	0.9	0.4	1.2	4.1	5.2	3.3	2.6	2.5	1.9	26.3
17-21	19-24	0.5	0.3	0.5	0.3	0.1	0.6	2.4	3.2	2.0	1.7	1.3	0.9	13.8
22-27	25-31	0.1	0.1	0.1	0.1	0+	0.3	1.3	2.1	1.2	1.0	0.8	0.4	7.5
28-33	32-38	0+	0+	0+	0+	0+	0.1	0.4	0.7	0.4	0.3	0.3	0.1	2.3
34-40	39-46	0+	0+				0+	0.1	0.2	0.1	0.1	0.1	0.1	0.7
41-47	47-54						0+	0+	0+	0+	0+	0+	0+	0+
48-55	55-63						0+		0+					0+
56-63	64-72													
>63	>72													
TOTAL		4.5	3.9	6.2	3.4	1.5	3.9	11.2	15.4	10.1	8.1	7.9	6.1	100.1
		Percentage number of hours missed												0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

ABERPORTH (52° 08′N, 04° 34′W) 1950-53, 1955-59

Height of vane:	1950-51	1952-59
above MSL	430′	483′
above ground	30′	41′
above building	22′	33′
effective height	30′	41′

In 1952-59 the anemometer was situated some 1600 ft back from the edge of a cliff which in places rises to 400 ft from the sea. It was somewhat shielded to the south-east and south-west by buildings but may have been overexposed to winds from the north-east due to its proximity to the cliffs. The 1950-51 site was about 500 yds to the south-east of this, and was considerably sheltered by buildings 15 ft or more in height, about 50 yds away, between south-west and north-west.

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		JANUARY												
Calm														2.7
1-3	1-3													7.0
4-6	4-7	0.6	0.7	0.9	1.0	0.7	1.2	1.8	1.9	1.1	1.0	0.4	0.3	11.6
7-10	8-12	0.7	0.6	0.9	0.5	0.7	1.8	3.8	3.4	1.7	1.5	0.9	0.6	17.1
11-16	13-18	1.2	1.4	1.1	0.9	0.8	2.9	5.5	4.0	3.1	2.6	2.5	1.5	27.5
17-21	19-24	0.9	1.1	0.3	0.3	0.3	1.7	3.4	2.3	1.6	1.8	1.7	1.3	16.7
22-27	25-31	0.8	0.5	0.2	0.2	0.2	0.8	1.5	1.4	1.1	1.7	2.0	1.2	11.6
28-33	32-38	0.2		0.1	0.1	0+	0.1	0.4	0.2	0.4	1.1	0.9	0.6	4.1
34-40	39-46	0.1		0+				0+	0+	0.2	0.4	0.6	0.4	1.7
41-47	47-54											0+	0+	0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.5	4.3	3.5	3.0	2.7	8.5	16.4	13.2	9.2	10.1	9.0	5.9	100.0
		Percentage number of hours missed												0
		FEBRUARY												
Calm														3.9
1-3	1-3													6.1
4-6	4-7	0.4	0.8	0.6	1.1	1.1	1.2	1.3	1.6	0.9	0.7	0.4	0.5	10.6
7-10	8-12	1.4	1.2	1.1	1.6	1.0	2.4	2.6	3.3	2.3	1.6	1.0	0.8	20.3
11-16	13-18	2.3	3.0	1.7	1.7	1.4	3.1	3.2	3.5	3.4	4.0	2.5	1.2	31.0
17-21	19-24	0.9	1.4	1.4	0.3	0.4	1.0	2.6	2.1	2.0	2.6	2.1	1.0	17.8
22-27	25-31	0.7	0.5	0.2	0.1	0+	0.5	1.1	1.1	0.8	1.2	1.4	0.5	8.1
28-33	32-38	0.3	0.2				0.1	0.2	0.2	0.2	0.4	0.1	0.2	1.9
34-40	39-46	0+					0.1	0.1	0+	0+			0.1	0.3
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.0	7.1	5.0	4.8	3.9	8.4	11.1	11.8	9.6	10.5	7.5	4.3	100.0
		Percentage number of hours missed												0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

ABERPORTH *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							MARCH							
Calm														5.8
1-3	1-3													9.9
4-6	4-7	0.8	1.3	1.7	1.2	1.1	1.4	1.2	1.1	0.6	0.7	0.4	0.6	12.1
7-10	8-12	1.3	1.2	1.0	2.1	1.8	3.1	3.6	1.7	1.1	1.3	0.7	0.9	19.8
11-16	13-18	1.4	1.8	1.5	1.7	2.1	4.8	5.4	2.9	2.1	1.5	0.9	0.9	27.0
17-21	19-24	0.4	1.0	0.4	0.3	1.7	3.2	3.8	1.6	1.3	0.9	0.3	0.3	15.2
22-27	25-31	0.2	0.3	0.2	0.1	0.3	1.6	1.4	0.6	0.8	0.6	0.3	0.2	6.6
28-33	32-38	0.1	0.2	0.3		0+	0.4	0.2	0.1	0.5	0.2	0+	0+	2.0
34-40	39-46		0.1	0.1				0+		0.3	0.1			0.6
41-47	47-54										0+			0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.2	5.9	5.2	5.4	7.0	14.5	15.6	8.0	6.7	5.3	2.6	2.9	99.0
									Percentage number of hours missed					1.0
							APRIL							
Calm														5.9
1-3	1-3													11.9
4-6	4-7	0.7	1.6	1.7	1.1	0.6	0.9	1.5	1.2	0.7	1.4	1.2	1.7	14.3
7-10	8-12	1.5	1.5	1.4	0.8	0.8	1.3	3.0	2.3	1.8	3.2	2.0	2.6	22.2
11-16	13-18	2.9	1.8	1.6	0.3	0.7	1.4	3.2	4.3	3.3	4.0	2.0	3.2	28.7
17-21	19-24	1.1	0.7	0.3		0.1	0.7	1.9	1.9	1.7	2.2	0.9	0.5	12.0
22-27	25-31	0.2	0.1	0+			0.2	0.5	0.4	0.8	0.9	0.5	0.4	4.0
28-33	32-38	0+					0+	0.1	0.1	0.1	0+	0.2	0+	0.5
34-40	39-46							0+		0+				0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.4	5.7	5.0	2.2	2.2	4.5	10.2	10.2	8.4	11.7	6.8	8.4	99.5
									Percentage number of hours missed					0.4
							MAY							
Calm														7.3
1-3	1-3													15.6
4-6	4-7	1.8	2.2	2.5	0.9	1.1	1.4	1.4	0.9	0.8	1.4	1.5	1.6	17.5
7-10	8-12	1.6	1.8	1.9	0.8	1.3	2.9	3.2	1.7	1.4	1.8	1.2	1.4	21.0
11-16	13-18	2.0	1.1	0.9	0.2	0.8	3.2	4.1	2.8	2.5	2.9	1.5	1.4	23.4
17-21	19-24	0.8	0.1	0.3		0.2	0.8	2.0	1.8	1.9	1.7	0.9	0.5	11.0
22-27	25-31	0.1	0.1	0+		0+	0.1	0.5	0.4	1.0	0.9	0.2	0.1	3.4
28-33	32-38	0.1	0.1	0+		0+		0.2	0.1	0.1	0+		0+	0.6
34-40	39-46		0+					0+		0+				0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.4	5.4	5.6	1.9	3.4	8.4	11.4	7.7	7.7	8.7	5.3	5.0	99.8
									Percentage number of hours missed					0.2

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

ABERPORTH *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
JUNE														
Calm														7.8
1-3	1-3													16.0
4-6	4-7	1.1	1.0	1.1	0.9	0.7	1.0	1.4	1.7	1.3	2.1	2.8	1.9	17.0
7-10	8-12	1.2	0.6	1.1	0.9	0.9	1.4	2.9	3.3	2.9	3.5	3.5	2.1	24.3
11-16	13-18	1.4	0.2	0.2	0.1	0.9	1.8	2.9	4.5	3.5	4.6	2.2	1.9	24.2
17-21	19-24	0.6	0+	0+		0.2	0.5	1.2	1.1	1.1	1.9	0.4	0.8	7.8
22-27	25-31	0.2				0.1	0.1	0.3	0.3	0.2	0.8	0.1	0.7	2.8
28-33	32-38						0.1				0+	0+		0.1
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.5	1.8	2.4	1.9	2.8	4.9	8.7	10.9	9.0	12.9	9.0	7.4	100.0
Percentage number of hours missed														0
JULY														
Calm														10.5
1-3	1-3													15.7
4-6	4-7	1.0	0.9	1.0	0.8	0.5	0.7	1.3	2.1	1.6	2.2	2.5	2.2	16.8
7-10	8-12	1.1	0.4	0.4	0.6	0.4	1.0	2.3	3.3	3.4	3.5	2.5	1.9	20.8
11-16	13-18	1.0	0.7	0.3	0.4	0.2	1.2	2.9	3.2	4.3	4.8	2.6	2.5	24.1
17-21	19-24	0.4	0.1	0.1		0+	0.3	0.7	1.1	2.2	1.8	1.3	0.7	8.7
22-27	25-31	0.1				0+	0+	0.2	0.2	0.5	1.0	0.6	0.1	2.7
28-33	32-38									0.1	0.2	0.1	0+	0.4
34-40	39-46											0+	0+	0+
41-47	47-54											0+		0+
48-55	55-63												0+	0+
56-63	64-72													
>63	>72													
TOTAL		3.6	2.1	1.8	1.8	1.1	3.2	7.4	9.9	12.1	13.5	9.6	7.4	99.7
Percentage number of hours missed														0.2
AUGUST														
Calm														7.2
1-3	1-3													11.6
4-6	4-7	0.6	1.0	0.7	0.5	0.5	1.1	2.8	3.1	1.9	2.7	2.1	1.9	18.9
7-10	8-12	1.6	0.7	0.5	0.3	0.5	1.9	4.0	3.9	3.9	2.8	3.3	2.5	25.9
11-16	13-18	1.5	0.4	0.3	0.1	0.2	1.8	4.3	3.3	4.1	3.7	2.5	2.0	24.2
17-21	19-24	0.5	0.2	0.1	0+	0.1	0.5	1.3	0.8	1.2	1.8	1.1	0.4	8.0
22-27	25-31	0.1	0+		0+	0+	0.1	0.2	0.1	0.6	0.8	0.8	0.2	2.9
28-33	32-38	0.1						0+	0+	0.1	0.1	0.2	0.1	0.6
34-40	39-46										0+	0+	0.2	0.2
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.4	2.3	1.6	0.9	1.3	5.4	12.6	11.2	11.8	11.9	10.0	7.3	99.5
Percentage number of hours missed														0.4

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

ABERPORTH *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		SEPTEMBER												
Calm														4.1
1-3	1-3													9.8
4-6	4-7	0.6	0.5	1.1	1.2	0.7	1.4	1.5	1.7	1.5	1.1	1.1	0.6	13.0
7-10	8-12	0.7	1.1	1.7	1.5	1.0	3.3	4.1	3.5	2.6	2.6	1.9	1.0	25.0
11-16	13-18	1.2	1.4	1.2	0.7	0.7	2.5	3.9	3.7	3.7	3.6	3.3	2.2	28.1
17-21	19-24	0.8	0.8	0.3	0.1	0.1	0.9	1.7	1.5	2.0	1.5	1.4	1.2	12.3
22-27	25-31	0.3	0.4	0.2		0+	0.3	0.5	0.7	1.0	0.8	0.7	0.5	5.4
28-33	32-38	0.2	0.1	0+			0+	0.1	0.1	0.3	0.4	0.4	0+	1.6
34-40	39-46										0+	0.2		0.2
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.8	4.3	4.5	3.5	2.5	8.4	11.8	11.2	11.1	10.0	9.0	5.5	99.5
		Percentage number of hours missed												0.5
		OCTOBER												
Calm														5.5
1-3	1-3													10.2
4-6	4-7	0.4	0.6	0.5	0.7	0.9	1.8	1.9	2.1	1.3	0.5	0.7	0.5	11.9
7-10	8-12	1.3	1.1	0.4	0.4	1.3	2.7	3.5	4.9	3.3	1.5	1.7	1.4	23.5
11-16	13-18	1.5	1.0	0.6	0.2	1.7	2.5	3.3	4.5	3.5	2.7	2.4	1.9	25.8
17-21	19-24	0.6	0.6	0.5		0.7	1.0	0.9	1.3	1.7	2.5	1.7	0.9	12.4
22-27	25-31	0.8	0.1	0+		0.4	0.8	0.5	0.6	0.8	1.2	1.5	1.4	8.1
28-33	32-38	0.3				0+	0.1	0.1	0.2	0.1	0.3	0.2	0.4	1.7
34-40	39-46							0+	0+	0+	0.1	0.1	0.3	0.5
41-47	47-54										0.1	0.1	0.1	0.3
48-55	55-63												0+	0+
56-63	64-72													
>63	>72													
TOTAL		4.9	3.4	2.0	1.3	5.0	8.9	10.2	13.6	10.7	8.9	8.4	6.9	99.9
		Percentage number of hours missed												0
		NOVEMBER												
Calm														3.9
1-3	1-3													7.4
4-6	4-7	0.4	0.4	1.0	1.5	0.9	1.2	1.7	1.7	1.6	0.8	0.6	0.5	12.3
7-10	8-12	1.0	1.0	1.4	1.9	1.4	2.6	3.8	3.2	2.0	1.5	1.2	0,8	21.8
11-16	13-18	2.5	1.7	1.8	1.2	1.5	3.9	4.6	3.7	2.8	2.5	2.2	2.1	30.5
17-21	19-24	1.5	0.7	0.5	0.1	0.5	1.0	2.3	1.3	1.2	2.0	2.2	1.7	15.0
22-27	25-31	0.8	0.4	0.2	0+	0.2	0.7	0.7	0.5	0.6	1.2	0.9	0.9	7.1
28-33	32-38	0.1				0+	0.2	0.1	0.1	0.2	0.4	0.3	0.3	1.7
34-40	39-46					0+	0.1	0+	0+	0+	0.1	0.1	0+	0.3
41-47	47-54										0+	0+	0+	0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.3	4.2	4.9	4.7	4.5	9.7	13.2	10.5	8.4	8.5	7.5	6.3	100.0
		Percentage number of hours missed												0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

ABERPORTH *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
		DECEMBER												
Calm														1.8
1-3	1-3													4.6
4-6	4-7	0.5	0.5	0.6	0.7	0.6	0.9	1.2	1.3	0.9	0.3	0.3	0.4	8.2
7-10	8-12	0.7	0.7	1.3	1.0	0.8	2.3	4.6	4.3	2.0	0.9	1.4	0.8	20.8
11-16	13-18	1.4	0.7	1.4	0.6	0.7	4.2	6.5	4.8	3.4	2.6	1.8	1.6	29.7
17-21	19-24	0.5	0.5	0.8	0.3	0.7	2.1	3.2	3.1	2.4	2.1	2.2	0.7	18.6
22-27	25-31	0.2	0.3	0.5	0.3	0.4	1.0	1.5	1.8	1.6	2.1	1.2	0.3	11.2
28-33	32-38	0.1		0+	0+	0.2	0.4	0.1	0.1	0.8	1.1	0.4	0.2	3.4
34-40	39-46		0+			0.1	0.2			0.1	0.5	0.4	0.1	1.4
41-47	47-54					0.1	0.1				0.1	0+		0.3
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.4	2.7	4.6	2.9	3.6	11.2	17.1	15.4	11.2	9.7	7.7	4.1	100.0
Percentage number of hours missed														0
		YEAR												
Calm														5.6
1-3	1-3													10.5
4-6	4-7	0.7	0.9	1.1	1.0	0.8	1.2	1.6	1.7	1.2	1.3	1.2	1.0	13.7
7-10	8-12	1.2	1.0	1.1	1.0	1.0	2.2	3.5	3.2	2.4	2.1	1.8	1.4	21.9
11-16	13-18	1.7	1.3	1.0	0.7	1.0	2.8	4.1	3.8	3.3	3.2	2.2	1.9	27.0
17-21	19-24	0.7	0.6	0.4	0.1	0.4	1.2	2.1	1.7	1.7	1.9	1.3	0.9	13.0
22-27	25-31	0.4	0.2	0.1	0.1	0.1	0.5	0.7	0.7	0.8	1.1	0.9	0.6	6.2
28-33	32-38	0.1	0.1	0+	0+	0+	0.1	0.1	0.1	0.2	0.4	0.2	0.2	1.5
34-40	39-46	0+	0+	0+		0+	0+	0+	0+	0.1	0.1	0.1	0.1	0.4
41-47	47-54					0+	0+				0+	0+	0+	0+
48-55	55-63												0+	0+
56-63	64-72													
>63	>72													
TOTAL		4.8	4.1	3.7	2.9	3.3	8.0	12.1	11.2	9.7	10.1	7.7	6.1	99.8
Percentage number of hours missed														0.2

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

LIZARD (49° 57′N, 05° 12′W) 1953-59

Height of vane:	
above MSL	315′
above ground	75′
above building	–
effective height	60′

The instrument was on a 75 ft mast about 90 ft north of a row of houses 30 ft in height. It was about ½ mile from the coast on the seaward edge of a fairly large plateau; the general exposure was good, the surrounding fields being enclosed by walls not more than 5 ft high.

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		JANUARY												
Calm														4.4
1-3	1-3													8.2
4-6	4-7	0.9	1.4	0.4	0.4	0.4	0.5	0.5	0.2	0.2	0.6	0.6	0.7	6.8
7-10	8-12	1.8	1.5	1.3	0.5	0.6	0.8	1.0	0.4	0.7	0.4	0.9	1.4	11.3
11-16	13-18	2.9	1.4	1.0	1.4	0.9	1.3	1.8	1.4	1.6	1.2	2.5	2.3	19.7
17-21	19-24	1.4	1.1	0.5	0.5	1.3	0.5	0.7	1.9	1.9	1.7	1.1	1.1	13.7
22-27	25-31	0.4	0.6	1.2	1.1	1.4	0.4	0.7	2.4	2.1	1.7	0.8	1.1	13.9
28-33	32-38	0.1	0.2	0.4	1.0	0.6	0.3	0.8	2.3	1.8	1.7	1.4	0.4	11.0
34-40	39-46	0+	0+	0+	0.2	0.1	0.2	0.2	0.6	1.3	1.2	0.4	0.3	4.5
41-47	47-54					0+		0.1	0+	0.2	0.2	0+	0+	0.5
48-55	55-63									0+	0+	0+		0+
56-63	64-72													
>63	>72													
TOTAL		7.5	6.2	4.8	5.1	5.3	4.0	5.8	9.2	9.8	8.7	7.7	7.3	94.0
Percentage number of hours missed														6.0
		FEBRUARY												
Calm														2.2
1-3	1-3													7.7
4-6	4-7	1.3	0.6	0.4	0.4	0.2	0.2	0.5	0.7	0.7	0.4	0.8	1.0	7.2
7-10	8-12	2.4	1.5	0.6	0.5	0.3	0.8	1.2	0.9	1.4	0.7	1.4	1.6	13.3
11-16	13-18	3.2	4.0	1.6	1.6	2.3	0.9	1.7	2.8	3.2	2.3	2.5	2.2	28.3
17-21	19-24	1.3	1.7	2.1	1.6	1.3	0.7	1.1	1.7	1.9	2.4	1.6	0.7	18.1
22-27	25-31	0.6	0.8	2.3	0.8	0.3	0.4	0.7	1.3	1.9	1.5	0.5	0.4	11.5
28-33	32-38	0.2	0.2	1.1	0.7	0.2	0.2	0.8	0.8	1.1	0.4	0.4	0+	6.1
34-40	39-46	0.1	0+	0.1	0+		0.1	0.5	0.5	0.7	0.2	0+	0.1	2.3
41-47	47-54		0+				0+	0.2	0.1	0+	0.2	0+		0.5
48-55	55-63									0+	0.1	0.1		0.2
56-63	64-72													
>63	>72													
TOTAL		9.1	8.8	8.2	5.6	4.6	3.3	6.7	8.8	10.9	8.2	7.3	6.0	97.4
Percentage number of hours missed														2.6

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

LIZARD *(contd)*

Mean wind speed		Percentage frequencies of winds at												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							MARCH							
Calm														3.9
1-3	1-3													5.3
4-6	4-7	0.7	0.6	1.1	1.2	0.7	0.7	0.6	0.4	0.4	0.5	0.5	0.3	7.7
7-10	8-12	1.6	1.2	2.2	2.6	1.3	1.1	1.1	1.5	1.0	0.8	0.7	0.9	16.0
11-16	13-18	1.9	2.4	3.9	5.4	2.2	2.2	2.4	2.5	1.5	1.7	1.0	0.7	27.8
17-21	19-24	0.4	0.6	2.4	5.3	1.2	1.3	1.3	1.4	1.7	1.3	0.6	0.6	18.1
22-27	25-31	0.1	0.2	1.3	3.8	1.5	0.8	1.1	1.2	1.4	1.1	0.2	0.3	13.0
28-33	32-38			0.2	1.2	0.7	0.1	0.4	1.2	0.5	1.2	0.1		5.6
34-40	39-46				0.6	0.3	0.1	0.2	0.3	0.2	0.2	0+		1.9
41-47	47-54				0.2			0+	0+	0.1				0.3
48-55	55-63								0.1					0.1
56-63	64-72													
>63	>72													
TOTAL		4.7	5.0	11.1	20.3	7.9	6.3	7.1	8.6	6.8	6.8	3.1	2.8	99.7
										Percentage number of hours missed				0.3
							APRIL							
Calm														6.1
1-3	1-3													13.0
4-6	4-7	1.4	1.1	1.2	1.2	0.4	0.4	0.6	0.5	0.7	0.8	0.9	1.2	10.4
7-10	8-12	2.9	1.7	1.5	1.6	1.0	0.7	1.2	1.8	1.0	1.3	1.7	1.9	18.3
11-16	13-18	3.7	2.9	5.8	2.8	1.1	0.4	0.8	2.1	2.5	2.3	2.7	2.2	29.3
17-21	19-24	1.2	0.7	2.6	1.7	0.3	0.3	0.3	1.5	1.5	1.4	1.8	1.0	14.3
22-27	25-31	0.2	0.2	0.9	0.8	0+	0.2	0.4	0.6	0.6	1.4	0.6	0.3	6.2
28-33	32-38	0+	0+		0.6	0+	0+	0.1	0.3	0.5	0.3	0.1	0.2	2.1
34-40	39-46				0.2				0.1	0+			0+	0.3
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		9.4	6.6	12.0	8.9	2.8	2.0	3.4	6.9	6.8	7.5	7.8	6.8	100.0
										Percentage number of hours missed				0
							MAY							
Calm														5.4
1-3	1-3													10.9
4-6	4-7	0.6	1.0	1.0	1.0	1.1	0.8	1.1	0.9	1.3	1.3	1.5	0.9	12.5
7-10	8-12	1.3	1.8	2.4	1.7	1.1	0.8	1.0	0.8	1.5	1.8	2.8	2.6	19.6
11-16	13-18	2.9	1.0	2.9	3.0	1.2	1.4	1.6	2.5	1.7	3.2	3.1	2.3	26.8
17-21	19-24	0.7	0.2	1.7	1.2	0.9	0.4	0.9	2.5	1.8	2.4	1.1	0.8	14.6
22-27	25-31	0.3	0.1	0.3	0.2	0.1	0+	1.1	1.3	1.3	1.0	0.4	0.6	6.7
28-33	32-38	0+			0.1		0+	0.2	0.2	0.3	0.1	0.4	0.3	1.6
34-40	39-46						0+		0.2	0.1	0.2	0.2	0.3	1.0
41-47	47-54										0.2	0.1		0.3
48-55	55-63										0+	0+		0+
56-63	64-72													
>63	>72													
TOTAL		5.8	4.1	8.3	7.2	4.4	3.4	5.9	8.4	8.0	10.2	9.6	7.8	99.4
										Percentage number of hours missed				0.5

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

LIZARD *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
								JUNE						
Calm														5.9
1-3	1-3													14.2
4-6	4-7	0.8	0.9	1.2	1.0	1.1	0.3	0.5	1.2	0.9	1.9	2.4	1.3	13.5
7-10	8-12	1.8	1.0	2.3	1.8	1.0	0.6	0.8	1.9	2.1	2.2	3.5	2.2	21.2
11-16	13-18	2.4	0.7	2.2	1.5	0.9	0.7	1.1	3.6	3.9	4.7	4.9	2.3	28.9
17-21	19-24	0.6	0.1	0.5	0.7	0.7	0.1	0.6	1.0	1.4	1.8	1.8	1.2	10.5
22-27	25-31	0.2	0+	0.1	0.5	0.3	0.2	0.4	0.6	0.7	0.9	0.4	0.4	4.7
28-33	32-38			0+	0.1	0+	0.1	0+	0.3	0.2	0.1	0+	0+	0.8
34-40	39-46					0+			0.1	0+				0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	> 72													
TOTAL		5.8	2.7	6.3	5.6	4.0	2.0	3.4	8.7	9.2	11.6	13.0	7.4	99.8
								Percentage number of hours missed						0.2
								JULY						
Calm														5.7
1-3	1-3													12.3
4-6	4-7	1.4	0.7	1.2	0.8	0.4	0.3	0.2	0.6	1.1	2.2	2.5	1.1	12.5
7-10	8-12	1.8	1.4	2.8	0.9	0.7	0.5	0.5	1.7	1.9	3.0	2.9	2.4	20.5
11-16	13-18	1.8	0.5	1.7	1.2	0.4	0.4	0.5	3.3	5.4	7.3	4.0	3.0	29.5
17-21	19-24	0.7	0.2	0.2	0.7	0+	0.1	0.2	1.6	2.1	3.3	1.6	1.3	12.0
22-27	25-31	0+		0.1	0.3		0+	0.2	0.8	1.5	1.3	0.5	0.1	4.8
28-33	32-38				0+		0+	0.1	0.2	0.3	0.6	0.2		1.4
34-40	39-46									0+	0+	0.1		0.1
41-47	47-54										0+			0+
48-55	55-63									0+				0+
56-63	64-72										0+			0+
>63	>72													
TOTAL		5.7	2.8	6.0	3.9	1.5	1.3	1.7	8.2	12.3	17.7	11.8	7.9	98.8
								Percentage number of hours missed						1.0
								AUGUST						
Calm														7.7
1-3	1-3													14.8
4-6	4-7	1.0	0.7	1.2	1.3	0.6	0.2	0.4	0.8	1.2	1.9	2.4	1.3	13.0
7-10	8-12	1.5	0.9	1.7	1.3	0.9	0.3	1.2	1.6	2.5	3.2	4.2	2.6	21.9
11-16	13-18	1.4	0.9	2.5	0.8	0.7	0.8	1.5	2.7	4.7	4.7	4.8	3.2	28.7
17-21	19-24	0.1	0.1	1.0	0.5	0+	0.1	0.5	0.7	1.5	2.0	1.6	0.6	8.7
22-27	25-31			0+	0.2		0+	0.2	0.5	0.9	1.5	0.7	0.3	4.3
28-33	32-38						0+	0+	0.1	0.3	0.2	0.1		0.7
34-40	39-46									0.1	0.1	0+		0.2
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.0	2.6	6.4	4.1	2.2	1.4	3.8	6.4	11.2	13.6	13.8	8.0	100.0
								Percentage number of hours missed						0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

LIZARD *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
								SEPTEMBER						
Calm														7.6
1-3	1-3													11.8
4-6	4-7	0.4	0.7	0.9	1.0	0.8	0.5	0.8	0.7	1.2	1.4	1.2	0.9	10.5
7-10	8-12	0.5	0.8	2.1	2.5	1.4	1.5	1.1	1.8	2.5	1.8	2.3	1.7	20.0
11-16	13-18	1.1	0.5	2.1	4.1	1.5	1.4	1.8	3.1	3.8	4.5	2.9	1.3	28.1
17-21	19-24	0.6	0.1	0.2	1.9	0.5	0.5	0.6	1.9	1.6	2.2	1.5	0.4	12.0
22-27	25-31	0.1		0.2	0.8	0.1	0.2	0.5	1.3	0.9	1.2	1.0	0.4	6.7
28-33	32-38			0+	0.2		0+	0.2	0.5	0.5	0.2	0.4	0+	2.0
34-40	39-46						0+	0.1	0.1	0.2	0.2	0+		0.6
41-47	47-54										0.1			0.1
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.7	2.1	5.5	10.5	4.3	4.1	5.1	9.4	10.7	11.6	9.3	4.7	99.4
									Percentage number of hours missed					0.5
								OCTOBER						
Calm														5.0
1-3	1-3													14.5
4-6	4-7	1.2	0.8	0.9	1.1	0.9	0.7	0.7	0.3	0.7	1.0	1.4	1.2	10.9
7-10	8-12	1.7	1.5	1.5	2.0	1.4	0.8	0.7	1.1	1.0	1.9	2.3	2.8	18.7
11-16	13-18	1.2	0.8	1.4	2.2	1.5	1.1	1.8	2.8	3.4	3.0	3.3	3.1	25.6
17-21	19-24	0.5	0.2	0.4	0.4	0.6	0.1	1.7	2.4	2.4	2.5	1.6	1.2	14.0
22-27	25-31	0+	0.1	0+		0.1	0.4	1.1	1.9	1.4	1.5	1.0	0.5	8.0
28-33	32-38	0+					0.1	0.2	0.4	0.4	0.4	0.3	0.4	2.2
34-40	39-46					0+	0.1	0+	0.1	0.1		0.2	0.1	0.6
41-47	47-54									0.1	0+	0+		0.1
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.6	3.4	4.2	5.7	4.5	3.3	6.2	9.0	9.5	10.3	10.1	9.3	99.6
									Percentage number of hours missed					0.3
								NOVEMBER						
Calm														7.0
1-3	1-3													8.9
4-6	4-7	0.8	1.6	1.4	0.5	0.5	0.7	0.5	0.9	0.7	0.4	0.7	0.7	9.4
7-10	8-12	2.3	3.1	1.6	1.1	0.9	1.7	1.2	1.4	1.0	1.4	1.5	1.5	18.7
11-16	13-18	3.2	2.9	2.0	1.8	1.2	2.0	1.7	2.7	1.9	1.5	2.0	2.0	24.9
17-21	19-24	0.2	0.2	1.6	0.6	0.7	1.5	1.3	2.0	1.7	1.0	1.5	0.8	13.1
22-27	25-31	0.1	0.1	0.5	0.8	0.1	1.2	1.7	1.9	1.5	1.0	1.0	0.8	10.7
28-33	32-38			0.1	0.1	0.1	0.5	1.0	0.5	0.6	0.5	0.7	0.2	4.3
34-40	39-46					0+	0.2	0.5	0.4	0.5	0.2	0.1		1.9
41-47	47-54						0.1	0.2	0.1	0.2	0.1			0.7
48-55	55-63							0.1	0.1	0+	0.1			0.3
56-63	64-72							0+	0+	0+				0+
>63	>72									0+				0+
TOTAL		6.6	7.9	7.2	4.9	3.5	7.9	8.2	10.0	8.1	6.2	7.5	6.0	99.9
									Percentage number of hours missed					0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

LIZARD *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from												All directions
		350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	Total
		DECEMBER												
Calm														4.0
1-3	1-3													7.8
4-6	4-7	0.5	0.4	0.4	0.3	0.4	0.6	0.5	0.8	0.6	0.4	1.1	0.4	6.4
7-10	8-12	0.6	0.6	0.8	0.6	0.5	1.2	1.1	1.8	1.5	1.1	1.5	1.1	12.4
11-16	13-18	0.4	1.1	1.9	0.8	1.5	1.5	1.7	2.5	3.1	2.4	3.3	1.2	21.4
17-21	19-24	0.2	0.3	0.7	0.9	1.1	0.6	0.8	2.3	2.4	3.1	2.1	0.8	15.3
22-27	25-31	0.3	0+	0.1	0.8	0.3	0.8	1.3	3.3	2.9	3.7	2.2	0.2	15.9
28-33	32-38	0+		0.1	0.5	0.4	0.4	0.9	2.1	2.8	2.6	1.3	0.1	11.2
34-40	39-46				0.1	0.2	0.2	0.5	0.4	1.1	1.4	1.0		4.9
41-47	47-54					0+	0.1		0.1	0.1	0.4			0.7
48-55	55-63										0+			0+
56-63	64-72													
>63	>72													
TOTAL		2.0	2.4	4.0	4.0	4.4	5.4	6.8	13.3	14.5	15.1	12.5	3.8	100.0
		Percentage number of hours missed												0
		YEAR												
Calm														5.4
1-3	1-3													10.8
4-6	4-7	0.9	0.9	0.9	0.9	0.6	0.5	0.6	0.7	0.8	1.1	1.3	0.9	10.1
7-10	8-12	1.7	1.4	1.7	1.4	0.9	0.9	1.0	1.4	1.5	1.7	2.2	1.9	17.7
11-16	13-18	2.2	1.6	2.4	2.2	1.3	1.2	1.5	2.7	3.1	3.2	3.1	2.1	26.6
17-21	19-24	0.7	0.4	1.1	1.3	0.7	0.5	0.9	1.7	1.8	2.1	1.5	0.9	13.6
22-27	25-31	0.2	0.2	0.6	0.8	0.3	0.4	0.8	1.4	1.4	1.5	0.8	0.5	8.9
28-33	32-38	0+	0+	0.2	0.4	0.2	0.2	0.4	0.7	0.7	0.7	0.5	0.1	4.1
34-40	39-46	0+	0+	0+	0.1	0+	0.1	0.2	0.2	0.3	0.3	0.2	0.1	1.5
41-47	47-54		0+		0+	0+	0+	0.1	0+	0.1	0.1	0+	0+	0.3
48-55	55-63							0+	0+	0+	0+	0+		0+
56-63	64-72							0+	0+	0+	0+			0+
>63	>72									0+				0+
TOTAL		5.7	4.5	6.9	7.1	4.0	3.8	5.5	8.8	9.7	10.7	9.6	6.5	99.0
		Percentage number of hours missed												0.9

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SCILLY (49° 56′N, 06° 18′W) 1950-54, 1956-59

Height of vane:

above MSL	230′
above ground	65′
above building	26′
effective height	57′

The anemograph was 26 ft above the roof of the coastguard station and was excellently exposed in all directions.

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
								JANUARY						
Calm														1.8
1-3	1-3													3.7
4-6	4-7	0.6	0.6	0.5	0.6	0.6	0.4	0.7	0.4	0.6	0.6	0.3	0.5	6.4
7-10	8-12	0.8	0.9	1.1	0.6	0.5	1.1	1.4	1.5	1.0	1.7	1.1	1.1	12.8
11-16	13-18	1.9	2.0	2.6	1.3	0.9	1.2	2.1	3.4	2.8	2.8	2.5	1.7	25.2
17-21	19-24	2.0	1.5	1.3	0.4	0.9	0.9	1.9	3.0	2.4	2.4	2.5	1.9	21.1
22-27	25-31	1.3	1.4	0.5	0.4	0.8	0.7	2.1	1.4	2.0	2.5	2.4	2.1	17.6
28-33	32-38	0.6	0.5		0.2	0.4	0.2	0.3	0.3	0.8	2.0	1.8	1.1	8.2
34-40	39-46	0.2	0+					0+	0+	0.3	0.9	0.9	0.3	2.6
41-47	47-54										0.2	0.2	0+	0.4
48-55	55-63										0+			0+
56-63	64-72													
>63	>72													
TOTAL		7.4	6.9	6.0	3.5	4.1	4.5	8.5	10.0	9.9	13.1	11.7	8.7	99.8
										Percentage number of hours missed				0.1
								FEBRUARY						
Calm														0.9
1-3	1-3													4.2
4-6	4-7	0.4	0.4	0.5	0.2	0.3	0.3	0.5	0.6	0.5	0.5	0.3	0.5	5.0
7-10	8-12	0.7	1.0	1.2	1.0	0.9	1.2	1.3	1.7	1.3	1.2	1.0	1.2	13.7
11-16	13-18	2.3	2.3	2.7	3.4	2.7	1.9	1.5	3.4	3.7	3.0	2.3	2.3	31.5
17-21	19-24	1.6	1.6	2.3	1.2	0.4	0.8	0.9	3.1	1.7	2.7	2.2	1.7	20.2
22-27	25-31	1.0	1.1	1.3	0.5	0.4	0.5	0.7	2.1	1.6	1.9	2.4	1.1	14.6
28-33	32-38	0.4	0.8	0.2	0+	0+	0.2	0.2	0.7	1.2	1.2	0.9	0.3	6.1
34-40	39-46	0+	0.1				0.1	0.1	0.2	0.7	1.4	0.4	0.2	3.2
41-47	47-54									0+	0.2	0.1		0.3
48-55	55-63											0.1		0.1
56-63	64-72													
>63	>72													
TOTAL		6.4	7.3	8.2	6.3	4.7	5.0	5.2	11.8	10.7	12.1	9.7	7.3	99.8
										Percentage number of hours missed				0.2

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SCILLY *(contd)*

Mean wind speed		Percentage number of hours with winds from												All directions
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	Total
							MARCH							
Calm														1.3
1-3	1-3													4.5
4-6	4-7	0.5	0.4	0.5	0.7	1.2	0.5	0.5	0.7	0.8	0.6	0.4	0.3	7.1
7-10	8-12	0.5	0.8	1.2	1.9	2.5	2.0	1.8	1.6	2.1	1.0	0.9	0.7	17.0
11-16	13-18	1.4	1.5	2.6	3.2	5.3	3.3	2.5	2.6	3.0	2.4	2.0	1.4	31.2
17-21	19-24	0.7	0.9	0.9	2.2	3.2	1.5	1.8	2.5	1.0	2.6	1.3	1.0	19.6
22-27	25-31	0.5	0.3	0.5	0.9	2.2	1.0	1.1	1.7	1.3	3.0	1.3	0.6	14.4
28-33	32-38	0.3	0+	0.5	0.6	0.6	0.2	0.4	0.2	0.3	0.4	0.6	0+	4.1
34-40	39-46	0+	0+	0.2		0.1		0+	0+	0.2	0.2	0.2		0.9
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.9	3.9	6.4	9.5	15.1	8.5	8.1	9.3	8.7	10.2	6.7	4.0	100.1
										Percentage number of hours missed				0+
							APRIL							
Calm														1.8
1-3	1-3													6.3
4-6	4-7	1.3	1.1	1.1	0.9	0.5	0.9	0.8	1.0	0.6	0.7	0.4	1.0	10.3
7-10	8-12	2.5	2.7	2.5	1.4	0.7	0.8	0.8	1.6	1.3	0.9	1.3	1.8	18.3
11-16	13-18	3.5	3.3	3.4	2.3	2.2	1.2	1.6	2.5	1.8	2.1	3.5	2.9	30.3
17-21	19-24	1.6	2.1	1.1	1.4	1.2	0.5	0.8	1.2	0.9	2.0	2.8	2.4	18.0
22-27	25-31	0.5	0.6	0.7	0.7	0.5	0.2	0.4	0.5	0.7	2.4	2.2	1.1	10.5
28-33	32-38	0.1	0+		0.1	0.1	0+	0.1	0.3	0.5	0.7	1.0	0.4	3.3
34-40	39-46	0+								0.1	0.5	0.2	0.1	0.9
41-47	47-54										0.1		0+	0.1
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		9.5	9.8	8.8	6.8	5.2	3.6	4.5	7.1	5.9	9.4	11.4	9.7	99.8
										Percentage number of hours missed				0+
							MAY							
Calm														1.5
1-3	1-3													7.5
4-6	4-7	1.3	1.1	1.1	1.2	0.4	0.6	0.4	0.6	0.5	0.6	0.7	0.8	9.3
7-10	8-12	3.8	1.9	2.2	2.2	1.5	1.3	1.1	1.6	1.5	1.5	1.9	2.2	22.7
11-16	13-18	4.1	4.5	3.4	2.6	2.9	2.8	2.1	2.7	2.6	3.2	3.2	2.9	37.0
17-21	19-24	1.2	1.0	1.1	1.0	1.6	0.9	1.3	1.3	1.8	1.6	1.2	1.3	15.3
22-27	25-31	0.9	0.1	0.1	0.3	0.1	0.4	0.7	0.3	0.5	0.7	0.4	0.3	4.8
28-33	32-38	0+		0+	0+		0.1	0+		0.1	0.1	0.1	0.2	0.6
34-40	39-46							0+	0+	0.1	0.1	0.2	0.5	0.9
41-47	47-54											0.2	0+	0.2
48-55	55-63										0+	0.1		0.1
56-63	64-72													
>63	>72													
TOTAL		11.3	8.6	7.9	7.3	6.5	6.1	5.6	6.5	7.1	7.8	8.0	8.2	99.9
										Percentage number of hours missed				0.1

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SCILLY *(contd)*

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							JUNE							
Calm														2.9
1-3	1-3													9.2
4-6	4-7	1.7	1.5	0.7	0.6	0.4	0.3	0.6	0.8	0.9	0.9	1.3	1.6	11.3
7-10	8-12	2.8	3.5	1.4	1.1	0.9	0.8	1.4	1.9	2.2	2.5	3.1	2.8	24.4
11-16	13-18	2.8	2.8	1.7	1.0	1.1	1.3	1.9	4.7	3.5	3.7	6.1	3.3	33.9
17-21	19-24	0.7	0.3	0.2	0.6	0.1	0.2	0.7	1.6	0.9	2.1	3.5	1.2	12.1
22-27	25-31	0.4	0+	0.1	0.4	0.3	0.1	0.2	0.4	0.5	1.2	1.5	0.3	5.4
28-33	32-38				0+	0+	0+			0.1	0.2	0.1	0.1	0.5
34-40	39-46									0.1	0.1	0+		0.2
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		8.4	8.1	4.1	3.7	2.8	2.7	4.8	9.4	8.2	10.7	15.6	9.3	99.9
								Percentage number of hours missed						0+
							JULY							
Calm														1.6
1-3	1-3													7.6
4-6	4-7	1.5	0.5	0.5	0.5	0.3	0.3	0.5	0.8	1.1	1.7	1.8	2.0	11.5
7-10	8-12	2.9	1.8	1.0	1.1	0.7	0.4	1.3	2.1	2.9	2.4	3.7	3.1	23.4
11-16	13-18	2.7	1.9	0.6	1.1	0.7	0.8	1.2	2.7	5.4	5.9	7.4	2.5	32.9
17-21	19-24	0.3	0.2	0.2	0.3	0.3	0.2	0.4	1.9	2.6	4.1	3.7	1.2	15.4
22-27	25-31		0.1	0.2	0.1	0.1	0+	0.1	0.2	0.8	2.1	1.9	0.5	6.1
28-33	32-38			0.1				0+		0.1	0.5	0.5	0+	1.2
34-40	39-46										0+	0.1	0+	0.1
41-47	47-54											0+		0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		7.4	4.5	2.6	3.1	2.1	1.7	3.5	7.7	12.9	16.7	19.1	9.3	99.8
								Percentage number of hours missed						0.3
							AUGUST							
Calm														2.2
1-3	1-3													7.8
4-6	4-7	1.7	1.2	0.4	0.2	0.5	0.5	0.9	1.4	1.3	1.2	1.6	1.0	11.9
7-10	8-12	1.7	1.2	0.9	0.5	1.0	0.9	1.5	3.4	3.1	4.4	4.0	2.0	24.6
11-16	13-18	1.6	1.2	0.6	0.5	1.2	0.7	1.9	4.2	5.9	7.5	5.5	2.9	33.7
17-21	19-24	0.8	0.3	0.2	0.4	0+	0.3	0.9	1.7	1.8	2.5	3.0	0.9	12.8
22-27	25-31	0.1	0.3	0.1	0+	0+	0+	0.3	0.8	0.7	1.6	1.9	0.3	6.1
28-33	32-38								0+	0.1	0.3	0.2		0.6
34-40	39-46								0+	0+	0+			0+
41-47	47-54									0+				0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.9	4.2	2.2	1.6	2.7	2.4	5.5	11.5	12.9	17.5	16.2	7.1	99.7
								Percentage number of hours missed						0.1

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SCILLY *(contd)*

Mean wind speed		Percentage number of hours with winds from												All directions
knots	m.p.h.	350° 010°	020° 040°	050° 070°	080° 100°	110° 130°	140° 160°	170° 190°	200° 220°	230° 250°	260° 280°	290° 310°	320° 340°	Total
								SEPTEMBER						
Calm														2.4
1-3	1-3													6.8
4-6	4-7	0.8	0.7	1.3	0.8	0.9	0.9	0.8	1.0	0.5	0.7	0.7	0.6	9.7
7-10	8-12	1.1	1.4	1.8	1.7	1.8	1.6	1.2	1.8	1.1	1.7	2.3	1.5	19.0
11-16	13-18	1.6	1.4	1.4	2.2	2.0	2.1	2.2	3.2	3.5	5.0	4.0	2.0	30.6
17-21	19-24	0.7	0.8	1.1	1.3	0.3	0.8	0.6	1.7	2.1	3.9	3.5	1.2	18.0
22-27	25-31	0.3	0.3	0.1	0.1	0+	0.2	0.3	1.3	1.5	2.1	2.7	0.8	9.7
28-33	32-38	0.3	0.1	0+	0+		0.1	0.1	0.3	0.4	0.4	0.7	0.1	2.5
34-40	39-46	0.1	0.1	0+					0.2	0.1	0.1	0.2	0+	0.8
41-47	47-54		0.1								0.1	0.2		0.4
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.9	4.9	5.7	6.1	5.0	5.7	5.2	9.5	9.2	14.0	14.3	6.2	99.9
										Percentage number of hours missed				0.2
								OCTOBER						
Calm														1.7
1-3	1-3													6.7
4-6	4-7	0.7	0.6	1.1	1.0	1.8	1.8	1.3	0.8	0.7	0.6	0.9	1.2	12.5
7-10	8-12	1.4	1.6	1.8	2.2	3.3	2.1	1.1	1.6	1.4	1.3	2.1	2.0	21.9
11-16	13-18	1.9	0.8	0.6	1.0	3.2	1.8	1.9	2.9	3.0	3.9	4.4	2.3	27.7
17-21	19-24	0.6	0.5	0.4	0.2	1.0	0.7	1.3	2.0	3.5	2.8	2.5	2.2	17.7
22-27	25-31	0.1	0.1	0.3	0.3	0.4	0.4	0.5	1.0	1.6	1.5	1.9	1.3	9.4
28-33	32-38	0+					0+	0.1	0.2	0.2	0.2	0.5	0.5	1.7
34-40	39-46							0+	0.1		0.1	0.2	0.2	0.6
41-47	47-54											0+		0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.7	3.6	4.2	4.7	9.7	6.8	6.2	8.6	10.4	10.4	12.5	9.7	99.9
										Percentage number of hours missed				0
								NOVEMBER						
Calm														1.8
1-3	1-3													8.7
4-6	4-7	0.5	0.5	1.2	0.9	0.9	0.9	0.7	0.6	0.6	0.4	0.7	0.6	8.5
7-10	8-12	1.1	0.7	1.4	1.1	0.8	1.3	1.1	1.7	1.0	1.2	1.2	1.2	13.8
11-16	13-18	2.2	1.5	1.5	2.1	0.8	1.4	1.5	2.7	1.9	2.0	2.6	2.4	22.6
17-21	19-24	2.0	1.0	1.7	1.0	0.4	0.9	1.4	2.2	2.0	1.9	3.5	1.6	19.6
22-27	25-31	0.6	0.5	0.5	0.4	0.5	1.0	1.0	2.0	1.7	1.8	2.6	1.3	13.9
28-33	32-38	0+	0.1		0+	0.2	0.2	0.3	0.4	0.8	1.0	1.5	0.5	5.0
34-40	39-46						0.1	0.2	0.1	0.2	0.5	0.8	0.2	2.1
41-47	47-54								0+	0.1	0.4	0.1	0.1	0.7
48-55	55-63								0.1	0+	0.1	0+	0+	0.2
56-63	64-72								0+		0+			0+
>63	>72													
TOTAL		6.4	4.3	6.3	5.5	3.6	5.8	6.2	9.8	8.3	9.3	13.0	7.9	96.9
										Percentage number of hours missed				3.0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

SCILLY *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
		DECEMBER												
Calm														1.1
1-3	1-3													3.9
4-6	4-7	0.3	0.3	0.2	0.3	0.4	0.9	0.6	0.8	0.6	0.5	0.6	0.4	5.9
7-10	8-12	1.0	0.4	0.7	0.3	0.7	1.8	1.7	1.8	2.1	1.3	1.2	1.3	14.3
11-16	13-18	1.0	0.9	2.7	0.9	1.7	2.0	2.3	3.4	2.8	3.5	3.3	2.2	26.7
17-21	19-24	0.9	0.8	1.5	0.8	0.6	1.1	1.5	2.4	2.2	2.6	2.6	1.4	18.4
22-27	25-31	1.0	1.0	0.9	0.3	0.4	0.6	0.6	2.3	2.0	3.8	3.0	1.5	17.4
28-33	32-38	0.3	0.3	0.2	0.1	0.2	0.2	0.2	0.4	1.1	2.2	2.3	0.7	8.2
34-40	39-46	0.1	0+	0.1	0.1		0+		0.1	0.5	0.9	1.4	0.4	3.6
41-47	47-54	0+	0+							0+	0.1	0.2		0.3
48-55	55-63	0+												0+
56-63	64-72													
>63	>72													
TOTAL		4.6	3.7	6.3	2.8	4.0	6.6	6.9	11.2	11.3	14.9	14.6	7.9	99.8
		Percentage number of hours missed												0+
		YEAR												
Calm														1.8
1-3	1-3													6.4
4-6	4-7	0.9	0.7	0.8	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.8	0.9	9.1
7-10	8-12	1.7	1.5	1.4	1.3	1.3	1.3	1.3	1.8	1.8	1.8	2.0	1.7	18.9
11-16	13-18	2.2	2.0	2.0	1.8	2.0	1.7	1.9	3.2	3.3	3.8	3.9	2.4	30.2
17-21	19-24	1.1	0.9	1.0	0.9	0.8	0.7	1.1	2.1	1.9	2.6	2.7	1.5	17.3
22-27	25-31	0.6	0.5	0.4	0.4	0.5	0.4	0.7	1.2	1.2	2.1	2.0	0.9	10.9
28-33	32-38	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5	0.8	0.9	0.3	3.5
34-40	39-46	0+	0+	0+	0+	0+	0+	0+	0.1	0.2	0.4	0.4	0.2	1.3
41-47	47-54	0+	0+						0+	0+	0.1	0.1	0+	0.2
48-55	55-63	0+							0+	0+	0+	0+	0+	0+
56-63	64-72								0+		0+			0+
>63	>72													
TOTAL		6.7	5.7	5.7	5.2	5.4	4.9	5.8	9.4	9.6	12.3	12.8	7.9	99.6
		Percentage number of hours missed												0.3

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

ALDERGROVE (54° 39′N, 06° 13′W) 1950-59

Height of vane	
above MSL	281′
above ground	65′
above building	37′
effective height	55′

The anemometer was well exposed, the surrounding countryside being undulating and open, with no buildings or trees within 200 yds of the instrument.

Mean wind speed		Percentage number of hours with winds from												
knots	m.p.h.	350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
		JANUARY												
Calm														2.8
1-3	1-3													10.7
4-6	4-7	0.9	0.3	0.8	0.8	0.8	1.6	3.1	2.2	1.1	0.8	1.1	1.4	14.9
7-10	8-12	1.0	0.3	1.0	1.0	1.7	2.4	5.7	5.3	2.4	1.8	1.3	1.2	25.1
11-16	13-18	0.6	0.3	0.8	1.4	1.7	3.3	5.8	5.7	4.1	2.5	1.6	0.8	28.6
17-21	19-24	0.1	0.1	0.6	0.3	0.6	1.1	2.1	2.8	1.9	0.6	0.5	0.3	11.0
22-27	25-31		0+	0.2	0.2	0.5	0.7	1.0	1.0	0.6	0.5	0.4	0.2	5.3
28-33	32-38			0.1		0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	1.0
34-40	39-46						0+		0.1	0.2	0+			0.3
41-47	47-54									0+				0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.6	1.0	3.5	3.7	5.4	9.3	17.8	17.2	10.4	6.3	5.0	4.0	99.7
		Percentage number of hours missed												0.4
		FEBRUARY												
Calm														4.1
1-3	1-3													12.3
4-6	4-7	1.2	1.1	1.2	1.4	1.5	1.3	2.3	2.0	1.2	1.2	1.1	1.4	16.9
7-10	8-12	1.8	1.3	1.6	2.0	2.5	2.0	3.3	3.7	2.4	2.0	1.5	2.0	26.1
11-16	13-18	1.1	1.1	1.2	1.7	1.9	2.4	4.0	5.4	3.4	2.0	1.5	1.6	27.3
17-21	19-24	0.3	0.2	0.4	0.5	0.5	1.1	1.4	1.7	1.4	0.6	0.3	0.4	8.8
22-27	25-31	0+		0+	0.1	0.3	0.4	0.7	1.0	0.6	0.3	0.1	0+	3.5
28-33	32-38					0.2	0.1	0.1	0.2		0+			0.6
34-40	39-46						0+	0+	0+					0+
41-47	47-54						0+	0+						0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.4	3.7	4.4	5.7	6.9	7.3	11.8	14.0	9.0	6.1	4.5	5.4	99.6
		Percentage number of hours missed												0.3

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

ALDERGROVE *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							MARCH							
Calm														2.2
1-3	1-3													12.2
4-6	4-7	1.0	0.8	1.4	1.8	1.5	1.4	1.6	1.3	0.9	1.0	0.8	0.8	14.3
7-10	8-12	1.3	0.8	1.8	2.9	4.2	3.3	2.6	2.7	1.9	1.3	1.1	1.0	24.9
11-16	13-18	1.2	1.1	2.3	3.9	5.0	5.6	3.1	3.8	2.7	1.5	1.2	1.3	32.7
17-21	19-24	0.2	0.1	0.9	1.9	1.9	1.9	1.3	1.1	0.8	0.4	0.2	0.3	11.0
22-27	25-31		0+	0.1	0.5	0.5	0.5	0.3	0.2	0.3	0.2			2.6
28-33	32-38				0+	0+	0.2							0.2
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.7	2.8	6.5	11.0	13.1	12.9	8.9	9.1	6.6	4.4	3.3	3.4	100.1
Percentage number of hours missed														0
							APRIL							
Calm														3.6
1-3	1-3													11.4
4-6	4-7	1.6	1.1	1.8	1.5	1.2	1.3	1.6	2.2	1.5	1.2	1.5	2.2	18.7
7-10	8-12	2.1	0.7	1.8	1.7	1.6	1.9	2.4	3.5	3.0	2.3	2.0	3.2	26.2
11-16	13-18	1.5	0.6	1.1	1.2	1.7	2.0	3.3	4.4	4.2	3.2	2.9	3.6	29.7
17-21	19-24	0.4	0.2	0.2	0.1	0.2	0.5	0.9	1.0	1.1	1.0	0.8	0.7	7.1
22-27	25-31	0+	0.1			0+	0.3	0.4	0.4	0.5	0.3	0.5	0.3	2.8
28-33	32-38						0+	0.1	0.1	0.1	0+	0.1		0.4
34-40	39-46							0+						0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.6	2.7	4.9	4.5	4.7	6.0	8.7	11.6	10.4	8.0	7.8	10.0	99.9
Percentage number of hours missed														0.1
							MAY							
Calm														3.0
1-3	1-3													13.7
4-6	4-7	2.1	1.1	2.4	2.1	1.4	1.3	0.9	1.0	0.9	1.3	1.0	1.6	17.1
7-10	8-12	3.1	1.5	3.2	3.3	3.1	3.1	1.7	1.7	1.5	1.6	1.8	3.1	28.7
11-16	13-18	1.5	1.2	2.4	2.3	3.0	3.5	1.8	2.3	2.3	2.2	2.4	3.9	28.8
17-21	19-24	0.5	0.3	0.6	0.6	0.4	1.0	0.6	0.8	0.5	0.6	0.7	0.8	7.4
22-27	25-31	0+	0.1	0.1	0.2	0+	0.1	0.1	0.2	0.3	0.1	0.1	0.1	1.4
28-33	32-38			0+	0+						0+	0+		0+
34-40	39-46											0+		0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		7.2	4.2	8.7	8.5	7.9	9.0	5.1	6.0	5.5	5.8	6.0	9.5	100.1
Percentage number of hours missed														0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

ALDERGROVE *(contd)*

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							JUNE							
Calm														4.4
1-3	1-3													16.6
4-6	4-7	2.4	0.7	1.9	2.4	1.7	1.2	1.4	1.6	1.6	1.0	1.4	2.3	19.6
7-10	8-12	2.0	0.4	1.3	2.8	2.2	2.1	2.7	3.7	2.9	2.3	2.3	3.6	28.3
11-16	13-18	1.3	0.1	0.9	1.8	1.6	1.8	2.7	4.3	3.0	2.4	2.4	2.7	25.0
17-21	19-24	0.2	0+	0.2	0.4	0.2	0.2	0.4	0.9	1.0	0.9	0.5	0.1	5.0
22-27	25-31	0.1		0.1	0.1	0+		0.1	0.2	0.3	0.1		0+	1.0
28-33	32-38									0+				0+
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		6.0	1.2	4.4	7.5	5.7	5.3	7.3	10.7	8.8	6.7	6.6	8.7	99.9
									Percentage number of hours missed					0
							JULY							
Calm														2.7
1-3	1-3													19.5
4-6	4-7	2.3	0.9	1.6	1.3	0.7	1.0	1.9	2.2	2.3	2.1	1.6	2.2	20.1
7-10	8-12	2.2	0.7	1.2	1.2	1.1	1.7	2.6	3.2	5.1	4.4	2.8	3.5	29.7
11-16	13-18	1.1	0+	0.8	0.6	0.9	1.6	2.0	2.7	3.9	4.1	3.2	2.4	23.3
17-21	19-24	0.1		0.1	0.1	0.2	0.3	0.3	0.2	0.7	1.0	0.7	0.5	4.2
22-27	25-31					0+	0+		0+	0.1	0.2	0.1	0.1	0.5
28-33	32-38													
34-40	39-46													
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.7	1.6	3.7	3.2	2.9	4.6	6.8	8.3	12.1	11.8	8.4	8.7	100.0
									Percentage number of hours missed					0
							AUGUST							
Calm														7.0
1-3	1-3													17.1
4-6	4-7	2.0	0.8	1.3	1.3	0.9	1.3	2.5	2.5	1.9	2.3	1.9	1.9	20.6
7-10	8-12	2.0	0.7	1.0	1.0	1.5	1.8	2.6	3.8	3.4	3.2	2.4	3.2	26.6
11-16	13-18	0.9	0.4	0.2	0.6	1.2	1.3	3.9	3.1	3.4	3.4	1.9	1.7	22.0
17-21	19-24	0.1	0+	0+	0.2	0.2	0.3	0.7	0.9	0.9	0.7	0.4	0.3	4.7
22-27	25-31				0.1	0.1	0.1	0.1	0.3	0.3	0.2	0.1	0.3	1.6
28-33	32-38						0+	0.1	0.1	0.1	0+	0.1		0.4
34-40	39-46						0+	0+				0+		0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		5.0	1.9	2.5	3.2	3.9	4.8	9.9	10.7	10.0	9.8	6.8	7.4	100.0
									Percentage number of hours missed					0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

ALDERGROVE (*contd*)

Mean wind speed knots	m.p.h.	Percentage number of hours with winds from 350° - 010°	020° - 040°	050° - 070°	080° - 100°	110° - 130°	140° - 160°	170° - 190°	200° - 220°	230° - 250°	260° - 280°	290° - 310°	320° - 340°	All directions Total
							SEPTEMBER							
Calm														4.6
1-3	1-3													10.0
4-6	4-7	1.2	0.4	1.0	1.2	1.5	1.9	1.9	2.0	0.7	0.7	0.7	1.4	14.6
7-10	8-12	1.0	0.5	1.2	1.2	2.5	3.2	3.7	4.7	2.8	2.1	1.8	1.6	26.3
11-16	13-18	1.2	0.4	0.5	1.0	1.6	3.6	3.7	5.3	4.6	4.4	3.0	1.3	30.6
17-21	19-24	0.1		0.2	0.3	0.1	0.8	1.0	1.8	2.0	1.7	1.2	0.5	9.7
22-27	25-31	0.1			0.2		0.2	0.6	0.4	0.5	0.8	0.4	0.1	3.3
28-33	32-38				0.1		0.1	0.1	0.1	0.1	0.2	0.1		0.8
34-40	39-46								0+	0.1	0.1			0.2
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.6	1.3	2.9	4.0	5.7	9.8	11.0	14.3	10.8	10.0	7.2	4.9	100.1
										Percentage number of hours missed				0
							OCTOBER							
Calm														2.6
1-3	1-3													10.5
4-6	4-7	0.9	0.3	0.6	0.9	1.1	1.4	2.6	2.3	1.6	1.2	1.3	1.1	15.3
7-10	8-12	0.9	0.3	0.5	0.8	2.6	2.7	4.7	4.6	2.8	2.4	2.2	1.7	26.2
11-16	13-18	0.4	0.1	0.3	0.4	2.3	3.7	5.2	8.3	5.5	2.7	2.1	1.2	32.2
17-21	19-24	0+			0.1	0.6	0.5	1.2	2.3	2.3	1.3	1.1	0.4	9.8
22-27	25-31					0.1	0.1	0.3	0.8	0.7	0.3	0.3	0.2	2.8
28-33	32-38	0+				0+	0+	0.1	0.1	0+	0+	0+	0+	0.2
34-40	39-46	0+					0+	0.1	0+				0+	0.1
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		2.2	0.7	1.4	2.2	6.7	8.4	14.2	18.4	12.9	7.9	7.0	4.6	99.7
										Percentage number of hours missed				0.1
							NOVEMBER							
Calm														4.8
1-3	1-3													12.6
4-6	4-7	1.3	0.9	1.2	1.1	1.0	1.0	3.2	2.6	1.5	1.1	1.1	1.4	17.4
7-10	8-12	1.5	0.6	0.7	1.4	1.7	2.0	4.4	5.8	2.5	1.9	2.0	1.4	25.9
11-16	13-18	0.5	0.4	1.0	1.2	1.3	2.9	4.4	5.5	3.3	1.8	1.6	1.2	25.1
17-21	19-24	0.2	0.1	0.4	0.3	0.4	0.9	1.1	2.1	1.7	1.3	0.3	0.2	9.0
22-27	25-31	0.1	0+	0.1	0.2	0.4	0.5	0.9	0.6	0.6	0.5	0.3	0+	4.2
28-33	32-38				0.1	0.2	0.2	0.1	0+	0.1	0.1	0+		0.8
34-40	39-46						0.1	0+		0+		0+		0.1
41-47	47-54						0+	0+						0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		3.6	2.0	3.4	4.3	5.0	7.6	14.1	16.6	9.7	6.7	5.3	4.2	99.9
										Percentage number of hours missed				0

TABLE X – PERCENTAGE FREQUENCIES OF WINDS AT SELECTED STATIONS

ALDERGROVE *(contd)*

Mean wind speed knots	Mean wind speed m.p.h.	Percentage number of hours with winds from 350°-010°	020°-040°	050°-070°	080°-100°	110°-130°	140°-160°	170°-190°	200°-220°	230°-250°	260°-280°	290°-310°	320°-340°	All directions Total
							DECEMBER							
Calm														2.8
1-3	1-3													7.9
4-6	4-7	0.6	0.6	0.7	0.6	0.8	0.9	2.4	2.0	0.8	0.2	0.7	0.8	11.1
7-10	8-12	0.5	0.4	1.4	1.1	1.3	2.0	4.7	4.8	2.4	1.3	1.2	0.9	22.0
11-16	13-18	0.3	0.4	1.0	1.3	2.0	3.5	6.5	7.8	5.1	2.2	1.0	0.5	31.6
17-21	19-24	0+	0.1	0.1	0.6	0.8	1.0	2.3	4.7	2.7	0.9	0.5	0.3	14.0
22-27	25-31	0.1	0+	0.1	0.6	0.7	0.4	1.1	1.5	1.3	0.8	0.4	0.1	7.1
28-33	32-38	0+	0.1	0+	0.1	0+	0.1	0.2	0.2	0.5	0.4	0.3		1.9
34-40	39-46								0+	0+		0+		0+
41-47	47-54													
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		1.5	1.6	3.3	4.3	5.6	7.9	17.2	21.0	12.8	5.8	4.1	2.6	98.4
								Percentage number of hours missed						1.7
							YEAR							
Calm														3.7
1-3	1-3													12.9
4-6	4-7	1.5	0.8	1.3	1.4	1.2	1.3	2.1	2.0	1.3	1.2	1.2	1.5	16.8
7-10	8-12	1.6	0.7	1.4	1.7	2.2	2.3	3.4	3.9	2.8	2.2	1.9	2.2	26.3
11-16	13-18	1.0	0.5	1.0	1.5	2.0	2.9	3.9	4.9	3.8	2.7	2.0	1.8	28.0
17-21	19-24	0.2	0.1	0.3	0.4	0.5	0.8	1.1	1.7	1.4	0.9	0.6	0.4	8.4
22-27	25-31	0+	0+	0.1	0.2	0.2	0.3	0.5	0.5	0.5	0.4	0.2	0.1	3.0
28-33	32-38	0+	0+	0+	0+	0+	0.1	0.1	0.1	0.1	0.1	0.1	0+	0.6
34-40	39-46	0+					0+	0+	0+	0+	0+	0+	0+	0+
41-47	47-54						0+	0+		0+				0+
48-55	55-63													
56-63	64-72													
>63	>72													
TOTAL		4.3	2.1	4.1	5.2	6.1	7.7	11.1	13.1	9.9	7.5	6.0	6.0	99.7
								Percentage number of hours missed						0.2

TABLE XI – MAXIMUM HOURLY MEAN WIND SPEED AT 33 FEET ABOVE THE GROUND

Station	No. of years	Period of record used	Speeds likely to be exceeded only once in:				Mean annual maximum	Highest on record
			10 years	20 years	50 years	100 years		
			knots					
Lerwick	35	1931-65	59	62	67	70	50.7	63
Kirkwall	14	1930-43	50	53	57	59	43.5	52
Stornoway	29	1937-65	60	64	69	73	51.4	63
Dyce	14	1952-65	47	52	57	61	37.4	53
Aberdeen	15	1933-47	38	41	45	48	30.9	39
Balmakewan	21	1915-35	39	42	46	49	32.0	44
Bell Rock	35	1930-55, 1958-65	48	51	54	56	42.3	52
Leuchars	17	1949-65	43	45	48	51	36.6	45
Edinburgh	49	1915-33, 1936-65	50	53	57	59	44.1	60
Tiree	39	1927-65	56	60	65	69	46.1	61
Paisley	52	1914-65	36	38	41	43	31.4	40
Renfrew	20	1946-65	43	46	50	53	35.7	45
Prestwick	22	1944-65	45	47	51	53	37.6	44
Eskdalemuir	42	1914-45, 1956-65	46	49	52	55	39.8	49
Point of Ayre	30	1936-65	50	53	57	60	43.0	55
Durham	28	1938-65	42	45	48	50	36.1	43
South Shields	32	1934-65	46	49	54	57	37.7	53
Catterick	10	1933-42	44	48	54	58	33.7	43
Spurn Head	32	1922-46, 1948-50, 1954, 1956-58	48	50	53	55	43.2	51
Cranwell	35	1928-44, 1947-48, 1950-65	40	42	46	48	33.3	42
Gorleston	43	1913-31, 1934-39, 1941-48, 1951-57, 1963-65	44	46	49	52	38.4	48
Mildenhall	28	1938-65	39	43	47	50	32.0	49

TABLE XI – MAXIMUM HOURLY MEAN WIND SPEED AT 33 FEET ABOVE THE GROUND *(contd)*

Station	No. of years	Period of record used	Speeds likely to be exceeded only once in:				Mean annual maximum	Highest on record
			10 years	20 years	50 years	100 years		
			knots					
Felixstowe	22	1931-35, 1937-38, 1944-52, 1954-59	39	41	44	47	33.9	40
Dunstable	14	1944-48, 1951-59	40	43	47	50	32.5	42
Cardington	34	1932-65	39	42	46	49	32.2	43
Stevenage	10	1950-59	35	37	40	43	29.5	34
Rothamsted	11	1955-65	26	27	29	30	23.1	26
Shoeburyness	40	1926-65	42	45	48	51	35.5	46
Leicester	10	1938-40, 1943-45, 1947-50	39	43	49	53	28.7	36
Edgbaston	42	1924-65	32	34	36	39	26.6	33
Keele	13	1953-65	31	33	34	36	27.8	33
Avonmouth	13	1953-65	45	47	50	52	39.8	45
Kingsway	16	1944-54, 1961-65	30	33	35	38	25.2	30
Hampton	16	1950-65	29	31	33	35	24.9	30
Kew	35	1931-65	29	30	32	34	25.2	32
Croydon	27	1928-39, 1944-58	35	37	40	42	30.1	39
Isle of Grain	10	1956-65	39	42	45	48	32.7	39
Manston	12	1943-54	39	42	45	47	34.2	39
Dover	32	1924-39, 1948-50, 1953-65	38	40	42	43	34.0	40
Lympne	27	1923-29, 1931-43 1945-51	41	44	46	49	36.5	45
Thorney Island	23	1943-65	36	38	41	43	30.7	39
Calshot	24	1920, 1922-41, 1950-52	44	46	50	52	37.3	43
South Farnborough	21	1945-65	39	42	46	49	31.1	43

TABLE XI – MAXIMUM HOURLY MEAN WIND SPEED AT 33 FEET ABOVE THE GROUND *(contd)*

Station	No. of years	Period of record used	Speeds likely to be exceeded only once in				Mean annual maximum	Highest on record
			10 years	20 years	50 years	100 years		
				knots				
Abingdon	19	1944-45, 1949-65	33	35	37	39	28.6	35
Larkhill	35	1931-65	39	41	43	45	34.3	40
Boscombe Down	33	1933-65	41	43	47	49	33.6	43
Porton	12	1954-65	38	39	41	43	33.6	36
Sellafield	16	1950-65	45	47	51	53	38.2	45
Moor House	19	1956-65	48	51	54	56	42.0	46
Fleetwood	38	1924-43, 1946-57, 1960-65	53	56	60	63	45.1	54
Southport	51	1913-54, 1957-65	52	55	59	62	44.0	56
Speke	17	1948-50, 1952-65	43	45	48	50	37.9	44
Bidston	37	1929-65	48	51	55	58	40.6	54
Ringway	21	1942-50, 1954-65	44	47	51	53	37.0	48
Sealand	19	1928-41, 1943-47	42	45	48	51	36.0	46
Holyhead	19	1933-51	53	56	60	63	44.8	56
Valley	14	1952-65	53	57	61	64	44.8	52
Aberporth	21	1945-65	48	51	55	58	41.0	48
Milford Haven	13	1951-62, 1965	43	46	49	51	38.0	45
Port Talbot	14	1952-65	46	49	53	56	38.5	46
St Ann's Head	14	1935-46, 1948-49	50	54	60	64	39.6	51
Plymouth Hoe	41	1921-43, 1947-48, 1950-65	46	49	52	55	39.5	50
Lizard	28	1935-42, 1945-47, 1949-65	53	56	59	62	47.0	58
Pendennis	20	1929-38, 1941-50	42	43	46	48	37.0	43
Scilly	39	1927-65	53	56	61	64	45.7	55
Aldergrove	36	1928-46, 1949-65	42	44	48	50	35.4	45

ADDENDUM TO Met. 0.792. S.O. Code No. 40-177*

TABLE XII – MAXIMUM GUST SPEED AT 33 FEET ABOVE THE GROUND

Station	No. of years	Period of record used	Speeds likely to be exceeded only once in:				Mean annual maximum	Highest on record
			10 years	20 years	50 years	100 years		
			knots					
Lerwick	35	1931-65	87	91	97	102	76.4	94
Kirkwall	14	1930-43	80	84	89	92	71.5	87
Stornoway	29	1937-65	93	100	108	114	78.0	97
Dyce	14	1952-65	78	86	95	102	60.9	87
Aberdeen	15	1933-47	68	72	77	81	58.8	72
Balmakewan	21	1915-35	66	71	77	82	54.5	76
Bell Rock	35	1930-55, 1958-65	76	80	86	90	65.6	79
Leuchars	17	1949-65	71	76	82	86	60.1	73
Edinburgh	49	1915-33, 1936-65	86	90	95	99	76.1	88
Tiree	39	1927-65	88	94	103	109	71.9	98
Paisley	52	1914-65	76	80	86	91	64.9	91
Renfrew	20	1946-65	79	85	92	98	65.6	83
Prestwick	22	1944-65	73	76	81	85	63.9	76
Eskdalemuir	42	1914-45, 1956-65	75	80	85	89	65.0	78
Point of Ayre	30	1936-65	75	79	83	87	66.1	77
Durham	28	1938-65	78	83	89	93	67.4	83
South Shields	32	1934-65	71	76	82	86	59.8	75
Catterick	10	1933-42	74	80	86	91	61.8	76
Spurn Head	32	1922-46, 1948-50, 1954, 1956-58	74	78	84	88	63.5	79
Cranwell	35	1928-44, 1947-48, 1950-65	72	78	85	91	57.9	93

TABLE XII – MAXIMUM GUST SPEED AT 33 FEET ABOVE THE GROUND *(contd)*

Station	No. of years	Period of record used	Speeds likely to be exceeded only once in:				Mean annual maximum	Highest on record
			10 years	20 years	50 years	100 years		
			knots					
Gorleston	43	1913-31, 1934-39, 1941-48, 1951-57, 1963-65	66	70	74	78	57.2	71
Mildenhall	28	1938-65	73	78	85	90	60.1	81
Felixstowe	22	1931-35, 1937-38, 1944-52, 1954-59	69	74	80	85	57.6	73
Dunstable	14	1944-48, 1951-59	69	75	83	88	54.0	71
Cardington	34	1932-65	66	71	77	81	55.6	72
Stevenage	10	1950-59	65	70	75	79	55.0	63
Rothamsted	11	1955-65	61	65	69	73	52.6	63
Shoeburyness	40	1926-65	65	69	74	78	55.9	69
Leicester	10	1938-40, 1943-45, 1947-50	73	79	87	94	56.6	73
Edgbaston	42	1924-65	64	68	73	77	53.9	68
Keele	13	1953-65	69	73	79	83	57.9	74
Avonmouth	13	1953-65	72	77	83	87	60.3	73
Kingsway	16	1944-54, 1961-65	67	72	79	84	54.8	68
Hampton	16	1950-65	59	63	68	71	51.6	60
Kew	35	1931-65	60	63	67	69	53.4	61
Croydon	27	1928-39, 1944-58	64	68	72	76	55.4	66
Isle of Grain	10	1956-65	65	69	75	79	54.2	62
Manston	12	1943-54	67	71	75	78	58.8	69
Dover	32	1924-39, 1948-50, 1953-65	68	73	79	83	57.7	76

TABLE XII – MAXIMUM GUST SPEED AT 33 FEET ABOVE THE GROUND *(contd)*

Station	No. of years	Period of record used	Speeds likely to be exceeded only once in:				Mean annual maximum	Highest on record
			10 years	20 years	50 years	100 years		
			knots					
Lympne	27	1923-29, 1931-43, 1945-51	69	73	77	81	60.5	73
Thorney Island	23	1943-65	67	70	75	79	57.4	70
Calshot	24	1920, 1922-41, 1950-52	69	74	80	84	58.1	75
South Farnborough	21	1945-65	66	69	74	77	57.2	68
Abingdon	19	1944-45, 1949-65	62	67	73	77	51.4	67
Larkhill	35	1931-65	68	71	75	78	61.1	68
Boscombe Down	33	1933-65	68	72	78	82	57.0	75
Porton	12	1954-65	62	65	68	71	55.3	62
Sellafield	16	1950-65	71	74	80	84	62.5	75
Moor House	10	1956-65	76	79	84	88	66.4	74
Fleetwood	38	1924-43, 1946-57, 1960-65	77	81	87	91	66.4	80
Southport	51	1913-54, 1957-65	77	81	87	92	65.8	80
Speke	17	1948-50, 1952-65	75	80	86	91	64.1	76
Bidston	37	1929-65	81	85	91	95	70.2	87
Ringway	21	1942-50, 1954-65	72	76	81	85	62.7	77
Sealand	19	1928-41, 1943-47	71	75	80	84	61.3	75
Holyhead	19	1933-51	81	86	93	98	68.4	92
Valley	14	1952-65	82	87	93	98	69.7	83
Aberporth	21	1945-65	77	82	88	92	66.2	79
Milford Haven	13	1951-62, 1965	76	81	87	91	65.1	84
Port Talbot	14	1952-65	72	76	81	84	63.4	71

TABLE XII – MAXIMUM GUST SPEED AT 33 FEET ABOVE THE GROUND *(contd)*

Station	No. of years	Period of record used	Speeds likely to be exceeded only once in				Mean annual maximum	Highest on record
			10 years	20 years	50 years	100 years		
			knots					
St Ann's Head	14	1935-46, 1948-49	83	88	95	101	69.3	84
Plymouth Hoe	41	1921-43, 1947-48, 1950-65	68	72	78	82	57.9	78
Lizard	28	1935-42, 1945-47, 1949-65	81	84	89	93	71.9	81
Pendennis	20	1929-38, 1941-50	74	79	85	89	63.3	76
Scilly	39	1927-65	83	87	93	98	71.9	92
Aldergrove	36	1928-46, 1949-65	72	76	81	85	62.6	76